This report has been submitted: 2021-01-18 11:53:19

<table>
<thead>
<tr>
<th><strong>Title of collaborating centre:</strong></th>
<th>Diagnosis and Control in Eastern Europe, Central Asia and Transcaucasia</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address of Collaborating Centre:</strong></td>
<td>Ministry of Agriculture of the Russian Federation 600901 Yur'evets Vladimir RUSSIA</td>
</tr>
<tr>
<td><strong>Tel.:</strong></td>
<td>+7-4922 26.38.77</td>
</tr>
<tr>
<td><strong>Fax:</strong></td>
<td>+7-4922 26.38.77</td>
</tr>
<tr>
<td><strong>E-mail address:</strong></td>
<td><a href="mailto:mail@arriah.ru">mail@arriah.ru</a></td>
</tr>
<tr>
<td><strong>Website:</strong></td>
<td><a href="http://www.arriah.ru/portal/en">www.arriah.ru/portal/en</a></td>
</tr>
<tr>
<td><strong>Name of Director of Institute (Responsible Official):</strong></td>
<td>Peter I. Kosyrev</td>
</tr>
<tr>
<td><strong>Name (including Title and Position) of Head of the Collaborating Centre (formally OIE Contact Point):</strong></td>
<td>Artyom Ye. Metlin, Deputy Director for Research and Quality</td>
</tr>
<tr>
<td><strong>Name of writer:</strong></td>
<td>Anatoly M. Rakhmanov, Prof., Expert</td>
</tr>
</tbody>
</table>
ToR: To provide services to the OIE, in particular within the region, in the designated specialty, in support of the implementation of OIE policies and, where required, seek for collaboration with OIE Reference Laboratories

ToR: To identify and maintain existing expertise, in particular within its region

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by the OIE

<table>
<thead>
<tr>
<th>Disease control</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title of activity</strong></td>
<td><strong>Scope</strong></td>
</tr>
<tr>
<td>Diagnostic activities for infectious diseases</td>
<td>Visits of the FGBI staff-members (102) to various Subjects of the RF for providing consultative assistance in animal disease diagnosis, for sampling, anti-epidemic measure planning and implementation</td>
</tr>
<tr>
<td>Diagnostic activities for infectious diseases in other countries</td>
<td>Missions of the staff members (5) to foreign countries: Uzbekistan, Kazakhstan and Kyrgyzstan for providing consultative assistance in animal disease diagnosis, anti-epidemic measure planning and implementation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Zoonoses</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title of activity</strong></td>
<td><strong>Scope</strong></td>
</tr>
<tr>
<td>Monitoring activities for rabies</td>
<td>A total of 974 rabies tests of pathological materials from 10 RF Subjects were performed using IFT, ELISA and virus isolation</td>
</tr>
<tr>
<td>Monitoring activities for BSE</td>
<td>A total of 22,501 BSE tests of pathological materials from 71 RF Subjects were performed using ELISA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Avian diseases</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title of activity</strong></td>
<td><strong>Scope</strong></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Monitoring activities for Newcastle disease

A total of 35,281 ND tests of pathological materials from 65 RF Subjects were carried out using PCR, sequencing, HI test and virus isolation.

### Monitoring activities for avian influenza

A total of 38,206 AI tests of pathological materials from 67 RF Subjects were carried out using ELISA, PCR, HI test and virus isolation.

### Monitoring activities for basic avian diseases in foreign countries

A total of 72 tests of pathological materials from the poultry farms of Tajikistan, Uzbekistan were performed for diagnosis of basic avian diseases using ELISA, PCR, HI test and sequencing.

### Aquatic animal diseases

<table>
<thead>
<tr>
<th>Title of activity</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnostic activities for spring viraemia of carp</td>
<td>A total of 425 tests of pathological materials from 27 RF Subjects were performed using ELISA, PCR and virus isolation</td>
</tr>
<tr>
<td>Diagnostic activities for infectious haematopoietic necrosis</td>
<td>A total of 319 tests of pathological materials from 14 RF Subjects were performed using ELISA, PCR and virus isolation</td>
</tr>
<tr>
<td>Diagnostic activities for viral haemorrhagic septicaemia</td>
<td>A total of 319 tests of pathological materials from 14 RF Subjects were performed using ELISA, PCR and virus isolation</td>
</tr>
<tr>
<td>Diagnostic activities for infectious pancreatic necrosis</td>
<td>A total of 319 tests of pathological materials from 16 RF Subjects were performed using ELISA, PCR and virus isolation</td>
</tr>
</tbody>
</table>

### Diagnosis, biotechnology and laboratory

<table>
<thead>
<tr>
<th>Title of activity</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnostic activities for bluetongue</td>
<td>A total of 4,126 tests of pathological materials from 6 RF Subjects were performed using ELISA, PCR and virus isolation</td>
</tr>
</tbody>
</table>
### Diagnostic activities for classical swine fever
- A total of 7,319 tests of pathological materials from 16 RF Subjects were performed using ELISA, PCR and virus isolation

### Diagnostic activities for African swine fever
- A total of 15,678 tests of pathological materials from 47 RF Subjects were performed using ELISA, PCR and virus isolation

### Diagnostic activities for lumpy skin disease
- A total of 3,972 tests of pathological materials from 20 RF Subjects were performed using ELISA, PCR and virus isolation

### Diagnostic activities for FMD in the Russian Federation
- A total of 191,987 tests of pathological materials from 77 RF Subjects were performed using ELISA, NSP-ELISA, PCR, CFT and virus isolation

### Diagnostic activities for peste des petits ruminants
- A total of 25,800 tests of pathological materials from 80 RF Subjects were performed using ELISA

### Diagnostic activities for sheep and goat pox
- A total of 178 tests of pathological materials from 6 RF Subjects were performed using ELISA

### Diagnostic activities for contagious bovine pleuropneumonia
- A total of 25,107 tests of pathological materials from 79 RF Subjects were performed using ELISA

---

**ToR: To propose or develop methods and procedures that facilitate harmonisation of international standards and guidelines applicable to the designated specialty**

2. **Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the surveillance and control of animal diseases, food safety or animal welfare**

<table>
<thead>
<tr>
<th>Proposal title</th>
<th>Scope/Content</th>
<th>Applicable area</th>
</tr>
</thead>
</table>
Control of infectious avian diseases

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>Details</th>
<th>Objectives/Activities</th>
</tr>
</thead>
</table>
| Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, Uzbekistan, Egypt, Bangladesh, Pakistan | The diagnostica and vaccines were supplied for early diagnosis and prevention of basic infectious avian diseases. | □ Surveillance and control of animal diseases
□ Food safety
□ Animal welfare |

Control of sheep and goat pox and peste des petits ruminants, lumpy skin disease

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>Details</th>
<th>Objectives/Activities</th>
</tr>
</thead>
</table>
| Armenia, Afghanistan, Egypt, Kazakhstan, Kyrgyzstan, Kuwait, Pakistan | The diagnostica and vaccines were supplied.                        | □ Surveillance and control of animal diseases
□ Food safety
□ Animal welfare |

FMD control

<table>
<thead>
<tr>
<th>Country/Region</th>
<th>Details</th>
<th>Objectives/Activities</th>
</tr>
</thead>
</table>
| Armenia, Afghanistan, Egypt, Jordan, Iran, Iraq, Kazakhstan, Kyrgyzstan, Kuwait, Morocco, Oman, Pakistan, South Korea, Bangladesh, Saudi Arabia, Mongolia, Taiwan | The diagnostica and vaccines were delivered for early diagnosis and prevention. | □ Surveillance and control of animal diseases
□ Food safety
□ Animal welfare |

**ToR:** To establish and maintain a network with other OIE Collaborating Centres designated for the same specialty, and should the need arise, with Collaborating Centres in other disciplines.

**ToR:** To carry out and/or coordinate scientific and technical studies in collaboration with other centres, laboratories or organisations.

3. Did your Collaborating Centre maintain a network with other OIE Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

<table>
<thead>
<tr>
<th>Name of OIE CC/RL/other organisation(s)</th>
<th>Location</th>
<th>Region of networking Centre</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Institute for Animal Health</td>
<td>Pirbright, Great Britain</td>
<td>Disease control, training</td>
<td></td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-------------------------</td>
<td>--------------------------</td>
<td></td>
</tr>
<tr>
<td>Istituto Zooprofilattico Sperimentale della Venezia (IZSVe)</td>
<td>Padova, Italy</td>
<td>Avian disease control</td>
<td></td>
</tr>
<tr>
<td>Centro de Vigilancia Sanitaria Veterinaria (VISAVET), Facultad de Veterinaria HCV Planta sotano, Universidad Complutense de Madrid (USM)</td>
<td>Madrid, Spain</td>
<td>Animal disease control (ASF)</td>
<td></td>
</tr>
<tr>
<td>Finnish Food Safety Authority Evira</td>
<td>Finland</td>
<td>Animal disease control</td>
<td></td>
</tr>
<tr>
<td>Institute for Veterinary Disease Control</td>
<td>Austria</td>
<td>Animal disease diagnosis</td>
<td></td>
</tr>
<tr>
<td>Community Reference Laboratory (CRL) for Rabies</td>
<td>France</td>
<td>Zoonoses</td>
<td></td>
</tr>
<tr>
<td>Veterinary Institute of Tajik Academy of Agricultural Sciences</td>
<td>Tadzikistan</td>
<td>Animal disease control</td>
<td></td>
</tr>
<tr>
<td>Uzbek National Research Laboratory for Veterinary Drug Control</td>
<td>Uzbekistan</td>
<td>Animal disease control</td>
<td></td>
</tr>
</tbody>
</table>
4. Did your Collaborating Centre maintain a network with other OIE Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

Yes

<table>
<thead>
<tr>
<th>Name of OIE CC/RL/other organisation(s)</th>
<th>Location</th>
<th>Region of networking Centre</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>International Atomic Energy Agency (IAEA)</td>
<td>Austria</td>
<td>Africa, Americas, Asia and Pacific, Europe, Middle East</td>
<td>Use of tissue samples from migratory wild waterfowl to detect avian influenza viruses and identify bird species simultaneously, and feather samples to determine bird migrations using stable isotope analysis</td>
</tr>
</tbody>
</table>
Infrared spectroscopy as a rapid method to verify the authenticity of milk and vegetable oils.

ToR: To place expert consultants at the disposal of the OIE.

5. Did your Collaborating Centre place expert consultants at the disposal of the OIE?

No

ToR: To provide, within the designated specialty, scientific and technical training to personnel from OIE Member Countries

6. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by the OIE, to personnel from OIE Member Countries?

Yes
a) Technical visits: 8
b) Seminars: 0
c) Hands-on training courses: 11
d) Internships (>1 month): 3

<table>
<thead>
<tr>
<th>Type of technical training provided (a, b, c or d)</th>
<th>Content</th>
<th>Country of origin of the expert(s) provided with training</th>
<th>No. participants from the corresponding country</th>
</tr>
</thead>
<tbody>
<tr>
<td>c) Hands-on training courses</td>
<td>&quot;Current epidemiology, diagnosis prevention and control of CSF and ASF&quot;</td>
<td>RF</td>
<td>11</td>
</tr>
</tbody>
</table>
Webinars

| Webinars | 19 webinars on highly dangerous animal disease epidemiology, diagnosis, prevention and control were provided | RF | 3079 |

**ToR: To organise and participate in scientific meetings and other activities on behalf of the OIE**

7. Did your Collaborating Centre organise or participate in the organisation of scientific meetings on behalf of the OIE?

Yes

<table>
<thead>
<tr>
<th>National/International</th>
<th>Title of event</th>
<th>Co-organiser</th>
<th>Date (mm/yy)</th>
<th>Location</th>
<th>No. Participants</th>
</tr>
</thead>
<tbody>
<tr>
<td>International</td>
<td>Training to work in the system in WAHIS + OIE</td>
<td>February, 2020</td>
<td>France, Paris</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>International</td>
<td>OIE standards training seminar</td>
<td>March, 2020</td>
<td>Azerbaijan</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**ToR: To collect, process, analyse, publish and disseminate data and information relevant to the designated specialty**

8. Publication and dissemination of any information within the remit of the mandate given by the OIE that may be useful to Member Countries of the OIE

a) Articles published in peer-reviewed journals: 56
6. Amelin V. G., Bolshakov D. S. Simultaneous Identification and Determination by LC-M5 of Quaternary


b) International conferences: 5


c) National conferences: 5


d) Other

(Provide website address or link to appropriate information): 46


14. First test-system for COVID-19 diagnosis in animals are developed at the Rosselkhoznadzor in Russia: [about the test-system developed by the FGBI “ARRIAH”] // Veterinariya i Zhizn. - 2020. - No. 5. - P. 2.


35. Safety of products derived from aquatic animals and aquaculture health protection in Russia: [studies performed by the FGBI "ARRIAH"] // Veterinariya i Zhizn. - 2020. - No. 5. - P. 5.


9. Additional comments regarding your report: