



## SERVICE LIST OF SCIENTIFIC AND CONSULTING CHARACTER

Contacts : 010000, Astana, Pobeda ave, 62, tel. +7 (717) 231-75-68, e-mail: [extension.katu@gmail.com](mailto:extension.katu@gmail.com)



№№	List of Services	Content of offered services	Expected outcomes of receiving services	Region	Cost and deadlines
1	2	3	4	5	6
<b>1.</b>	<b>LIVESTOCK, VETERINARY AND FISHERY</b>				
<b>1.1</b>	<b>Dairy cattle breeding</b>				
1.1.1	Research and consulting support processes, feeding and taking into account: <ul style="list-style-type: none"> <li>• holstein cattle;</li> <li>• black and white cattle;</li> <li>• simmental cattle;</li> <li>• the red and white cattle, etc.</li> </ul>	Valuation	1) The selection of animals on the basis of selected indicators 2) Selection of animals, semen for purposeful breeding work: to increase milk production, increase milk quality improvement of exterior profile of the animal, the duration of economic use, etc.. 3) Improving the genetic potential productivity of the herd	1	According to the contract, taking into account the list of volumes and required services
1.1.2		Qualitative research of milk	1) Determination of the chemical composition of milk (protein, fat, density, bacterial contamination, etc.). 2) Determination of somatic cells		from 300 tenge/test <i>(for a year)</i>
1.1.3		Evaluation of exterior-line method with entering data into the IAS (used mobile application for linear assessment)	1) Assessment of body (main article of animal: height at the withers, height at the back, chest, chest width, length of the body, etc.). 2) Evaluation of the udder (the length and thickness of the teats, the volume of the udder, the udder shape, condition mammary vein, etc.). 3) Assessment of the extremities (metacarpus, the distance between the hocks, the distance between the point of the buttock, hoof angle, height pastern , etc.)		from 1000 for one trainee <i>(for a year)</i>
1.1.4		Qualitative analysis of feed	Determination of the chemical composition (dry matter, moisture, crude protein, crude fat, crude fiber, starch, sugar, ash, calcium, phosphorus, iron, magnesium, sodium, etc.) And nutritional		<i>from 10,000 tenge / sample feed (Up to 45 days)</i>

			(exchange energy, the net energy of lactation, digestible energy, oat feed units) juicy, coarse and concentrated feed		<i>depending on the scope of work</i>
1.1.5		Services in the breeding process management	Development of selection and breeding work plan for 5 years or more (recommendations for the improvement of livestock farming, focused on the selection and the selection of animals)		According to the agreement, based on the list of volumes and required services
1.1.6		Recommendations on technology and feeding of dairy cattle	1) Development of recommendations on cost reduction, management of herd management, management personnel 2) Development of recommendations to reduce the cost for the procurement costs, preparation and distribution of feed 3) Development of recommendations according to the climatic conditions on the economy feeds choice of technology of cultivation, harvesting and storage		According to the agreement, based on the list of volumes and services required
<b>1.2</b>	<b>Meat cattle</b>				
1.2.1	Research and consulting support processes, feeding and livestock account of the following breeds: • Auliekolskaya; • Hereford; • Kazakh Whitehead, others.	Valuation	1) The selection of animals on the basic of selected indicators 2) Selection of animals, semen for purposeful breeding work: an increase in weight gain, meat quality improvement, improvement of exterior profile of the animal, the duration of economic use, etc.. 3) Improving the genetic potential productivity of the herd	1	According to the agreement, based on the list of volumes and services required
1.2.2		Analysis of feed quality	Determination of the chemical composition (dry matter, moisture, crude protein, crude fat, crude fiber, starch, sugar, ash, calcium, phosphorus, iron, magnesium, sodium, etc.) And nutritional (exchange energy, the net energy of lactation, digestible energy, oat feed units) feed (juicy, coarse, concentrated)		From 10 000 tenge / sample feed (Up to 45 days depending on the scope of work)
1.2.3		Evaluation of exterior-line method with entering data into the IAS (used mobile application for linear estimation)	1) Assessment of body (main article of animal: height at the withers, height at the back, chest, chest width, length of the body, etc.). 2) Live-animal estimate of meat quality (marbling, eye muscle area, fat thickness at the back) 3) Assessment of the extremities (metacarpus, the distance between the point of the buttock, hoof angle, height pastern, etc.)		<i>From 1000 tenge / (during a year)</i>
1.2.4		Services in the breeding process management	Development of selection and breeding work plan for 5 years or more (recommendations for the improvement of livestock farming by purposeful selection and selection of animals)		According to the agreement, based

1.2.5		Recommendations on technology and feeding of beef cattle	<p>1) Development of recommendations on cost reduction, management of herd management, management personnel</p> <p>2) Development of recommendations to reduce the cost for the procurement costs, preparation and distribution of feed</p> <p>3) Development of recommendations according to the climatic conditions on the economy feeds choice of technology of cultivation, harvesting and storage</p>		on the list of volumes and services required
<b>1.3</b>	<b>Sheepbreeding</b>				
1.3.1	Research and consulting support processes and feeding sheep	Valuation of individual sheep of different age and gender groups	Screening and selection of sheep through the establishment of breeding qualities	2	According to the agreement, based on the list of volumes and services required
1.3.2		Analysis of feed quality	Determination of the chemical composition (dry matter, moisture, crude protein, crude fat, crude fiber, starch, sugar, ash, calcium, phosphorus, iron, magnesium, sodium, etc.) And nutritional (exchange energy, the net energy of lactation, digestible energy, oat feed units) feed (juicy, coarse, concentrated		From 10 000 tenge / sample feed (up to 45 days depending on the scope of work)
1.3.3		Evaluation of productive qualities of sheep-breeding of different breeds	The definition of the class structure and productive qualities of sheep		According to the agreement, based on the list of volumes and services required
<b>1.4</b>	<b>Poultry</b>				
1.4.1	Formulating feeds for different age groups of birds	In the light of specific features of the livestock, and capacity management purposes, the optimal feed formulations will be developed	<p>1) Increasing the meat and egg poultry productivity</p> <p>2) Reducing the cost of feed</p>	1	According to the agreement, based on the list of volumes and services required (Up to 20 days depending on the amount of work)

1.5 Rabbithusbandry					
1.5.1	Research and consultancy services for the breeding of early developer rabbits in the conditions of Northern Kazakhstan	Services Breeding early developer rabbits technology	Manufacture of diet rabbit meat and fur raw materials of value	1	According to the agreement, based on the list of volumes and services required
1.5.2		Services in feeding technology of different age and gender groups, rabbits	Improving the productive qualities- rabbits in the combined type of feeding		
1.5.3		Recommendations on technology and feeding rabbits	Improving safety and weight gain of young animals-rabbits		
1.6 Maral(red deer) breeding and beekeeping					
1.6.1	Research and consultancy services for the breeding of maral	Services Technologies and feeding marals	Increasing the productive qualities of red deer diets by drawing multi-structural ration	3	According to the agreement, based on the list of volumes and services required
1.6.2		Zootechnical assessment of the herd	Keeping production and zootechnic and breeding records red deer herd		
1.6.3	Assistance to organic beekeeping and honey ICE	Forhoneyevaluationservices	Evidence-based veterinary and sanitary assessment of honey will be given . At its contamination with foreign substances, antibiotics, and also depending on the place of origin and, depending on the botanical composition.	1	According to the agreement, based on the list of volumes and services required (Up to 40 days depending on the scope of work)
1.6.4		Definition of honey contaminant: antibiotics, salts, heavy metals, pesticides, radio nuclides	Detection of foreign substances in honey in order to determine its safety		According to the agreement, based on the list of volumes and services required (Up to 40 days depending on the scope of work)
1.6.5		Certain vitamins, amino acid composition of honey	Determination of the chemical composition of honey to assess the food and biological value		According to the agreement, based on the list of volumes and

					services required (Up to 60 days depending on the scope of work)
<b>1.7</b>	<b>Fishery</b>				
1.7.1	Services for development of BOR to create a lake-commercial farms in all areas and types of farmed fish (carp and whitefish)	Development cards of fish biological pond farms and lake-commodity fish farms	\Biological basis for conducting fishing activities, including maintenance of lake-commodity fish farms	1	\
1.7.2		Recommendations on technology and feeding of fish	Increasing fish production ponds, the rational use of the biological resources of the reservoir, reducing feed cost		
1.7.3	Services for joint cultivation of plants and fish (aquaponics)	Formation of the list of fish stocks, the most plastic at the joint cultivation of plants	Selection of the most perspective species for cultivation ingrowing system at the customer's request and depending on external conditions	1	According to the agreement, based on the list of volumes and services required (Up to 60 days depending on the scope of work)
1.7.4		Selection of crops (tomatoes, cucumbers, strawberries, etc.)	Selection of the most perspective plant species for cultivation in aquaponics system at the customer's request and depending on external conditions		
1.7.5		Development schemes of technological processes of growing plants and fish	The introduction of technology in aquaponics fish farm at the customer's request and depending on external conditions		According to the agreement, based on the list of volumes and services required (Up to 6 months depending on the scope of work)
1.7.6		Hydro-chemical monitoring	Analysis of hydro-chemical indicators of installations of close water supply and methods of its improvement		According to the agreement, based on the list of volumes and services required (Up to 60 days depending on the scope of work)
1.7.7		Recommendations on technology and feeding of fish	Increasing fish production installations of close water supply, reduction of feed cost		
1.7.8	Providing services for growing of aquaculture in Kazakhstan	Monitoring of technological processes of cultivation of fish - tilapia, air	The development of optimal methods for maintenance and cultivation of valuable species of fish, depending on the individual circumstances of the customer	2	

		breathing catfish (African), catfish, sturgeon and sturgeon in a recirculation			
1.7.9		Recommendations on technology and feeding of fish	Increasing fish production ponds, the rational use of the biological resources of the reservoir, reducing feed cost		
<b>1.8</b>	<b>Veterinary: Veterinary Safety, veterinary medicine and prevention of infectious diseases</b>				
1.8.1		Determination of the various forms of mastitis degree distribution at cows	Reducing the incidence of cows by mastitis of various forms, implementation of diagnostics and consulting services	4	Diagnostic 500 tenge per research sample  Diagnostic indicator 750 tenge per sample  (Up to 60 days depending on the amount of work)
1.8.2		Diagnosis of a postnatal pathology at cows	Timely detection of sick animals and decrease the incidence at cows, consulting services		
1.8.3		Development of recommendations to ensure the well-being of veterinary	Development of long-term plan for the prevention of animal diseases		
1.8.4		The services on the dissemination of knowledge on the veterinary safety	Organization of seminars with the employees of veterinary services		
1.8.5	Provision of services for express diagnostics of bovine leukemia	Express diagnosis: staging of RIA, ELISA, PCR - analysis	Carrying out of the work on serological and genetic diagnosis of bovine leukemia	2	From 5000 tenge / sample (under contract)
1.8.6	Providing services for the dissemination of advanced technologies of calves, pigs, horses castration etc.	Conducting of chemical castration for improving fattening of calves productivity and injuries reducing	1) Increasing of beef productivity 2) Reducing the impact of stressors on the fattening process		From 1000 tenge / head (under contract)
1.8.7		Development of the scheme of chemical castration for fattening grounds	1) Increase of beef productivity 2) Prevention of injuries among young fattening 3) Reduction of post-castration complications		According to the agreement, based on the list of volumes and services required

1.8.8	Provision of express diagnostics (trihofitia, mikrosporiya, candidiasis, an opportunistic fungal infections), fungal skin diseases in farm animals	Classical mycological analysis	1) Accurate diagnosis for suspected fungal infections 2) Improving the quality of treatment and prevention 3) Improving the reliability of diagnosis and quality of mycoses 4) Improving the quality of treatment and prevention, acupuncture on the pathogens of fungal infections due to the selection of appropriate antifungal drugs		From 5000 Tenge / sample (Up to 30 days depending on the volume of work)
1.8.9		Smear microscopy, Gramstain			From 1000 tenge / sample (Up to 30 days depending on the volume of work)
1.8.10		Express diagnostics: RA statement, RA, RMP, ELISA			From 2000 tenge / sample (Up to 30 days depending on the volume of work)
1.8.11		Genotyping of pathogens with the purpose of identification			From 5000 tenge / sample (Up to 30 days depending on the volume of work)
1.8.12	Provision of training veterinarians and carrying out of hematological analysis	Carrying out of training seminars and workshops on environmental analysis of feed	1) Improving the skills of veterinary laboratories' staff 2) Reducing the cost of diagnosis and treatment of fungal infections of animals		From 50 000 tenge / 1 learner (under contract)
1.8.13		Diagnosis of epidermomycosis and other fungal infections, identification of fungal infections pathogens, antibiotic susceptibility	1) Improving the quality of treatment and prevention 2) Reducing the cost of antibiotic treatment 3) Increasing the meat and dairy product quality		From 100 000 tenge / 1 student (under contract)
<b>2.</b>	<b>PLANT GROWING AND FORESTRY</b>				
<b>2.1</b>	Grain, leguminous, olive and forage crops				
2.1.1	Scientific support on technology of grain,	Services according to an estimation of a seed material quality	Definition of germination, forces of growth, energy of germination.	1	From 2000 tenge/for one average test

	leguminous, olive and forage crops cultivation in view of soil-climatic conditions of a concrete facility				(for 2 months prior to the beginning of crop)
2.1.2		Services on selection of grades and hybrids for the conditions of a concrete facility	Development of recommendations on technology of grain, leguminous, olive and forage crops cultivation (norm and terms of seeding, a doze and the period of application of fertilizers, terms of cleaning, etc.)		From 50 000 tenge (for selection and a substantiation of one grade) (till 60 days depending on amounts of works)
2.1.3		Drawing up of the specialized crop rotations with olive cultures	Development of the scheme of a crop rotation with introduction of olive cultures		From 150 000 up to 200 000 tenge (till 60 days depending on amounts of works)
2.1.4		Services on training experts of facilities to modern technologies of grain, leguminous, olive and forage crops cultivation	Improvement of experts professional skill(certificate)		From 25 000 tenge for one trainee (under the contract)
<b>2.3</b>	<b>Forage production</b>				
2.3.1		Advances in technological productivity and rational use of natural forage lands. The establishment of cultural sown hay land and pasture	1) Obtain hyper herbage, hay and forage seeds 2) Improve natural pasture management	1	According to the agreement, based on the list of volumes and services required



2.3.2		Services on carrying out of workshops on topical issues of pasture, field and meadow forage production.	Professional development of experts (certificate)		From 25 000 tengefor one trainee(under the contract)
<b>2.4</b>	<b>Organic production</b>				
2.4.1	Advisory support on the transition and the production of organic products	Training and implementation of organic technology of cultivation of agricultural crops (fodder grasses, vegetable, etc.).	Recommendations on cultivation technology to produce consistently high yields of pure organic products, competitive on the domestic and foreign markets	1	According to the agreement, based on the list of volumes and services required
<b>2.5</b>	<b>Potato farming andvegetable farming</b>				
2.5.1	Consulting assistance on potato cultivation technology in a particular economy.	Development of recommendations on potato cultivation technology in a particular economy.	<u>Reccomendations :</u> 1)Variety selection 2) Preparation of soil 3) Preparation of tubers for planting 4) Planting 5) Care of planting 6) Seed material testing 7) Harvest and storage	1	According to the agreement, based on the list of volumes and services required
2.5.2	Providing services on specialists` training for greenhouse facility	Practical training workshop on greenhouse facility	Professional development of experts in the sphere of greenhouse facility (certificate)		free of charge (in 2016 -I2017 )
<b>2.6</b>	<b>Forestry</b>				
2.6.1	Providing services on mycorrhizal and	The study of the species composition and	1) Recommendations on the use of mycorrhizal macromycetes in forest planting and reforestation work.	1	According to the agreement, based

	makromitsetnym basics of forest-forming species of Central and North - East Kazakhstan through the use of artificial mycorrhization seedlings of wooden species	distribution of mycorrhizal macromycetes forest-forming species of Central and North-East Kazakhstan	2) Increase of the survival rate of forest plantations and shrub species of crops		on the list of volumes and services required
2.6.2	Silvicultural evaluation of green space with the help of remote sensing and GIS technology materials	Develop a list of the necessary measures to eliminate detected violations of existing norms and rules of urban economy, as well as the development of recommendations for further development of the green areas of the city as a whole and on individual problem areas	The calculations of regions greening, taking into account population growth, the use of modern IT. 2) Municipal urban services, ecologists will be presented with a map of landscaping schemes. 3) Implementation of the materials in the parks and other facilities of gardening in the National Geo Information System.		According to the agreement, based on the list of volumes and services required( up to 120 days depending on the <i>scope of work</i> )
<b>2.7</b>	<b>Plant protection</b>				
2.7.1	Plant protectionservices	Monitoring of weed infestation of crops	1) Classification of the species composition of weeds 2) Recommendations on agronomic, biological and chemical measures of weed control Recommendations regarding the selection of modern effective pesticides (herbicides), dosages and treatment phases	1	According to the agreement, based on the list of volumes and services required. (During the growing season)
2.7.2		Monitoring of the species composition of pests	1) Classification of the species composition of crop pests 2) Recommendations on agronomic, biological and chemical measures of pest control 3) Clarification of damage thresholds of the most common pests Recommendations regarding the selection of pesticides, the dosage and treatment phases		
2.7.3		Monitoring of the development and spread of diseases and pests in natural forage lands	1) Diagnosis of diseases of crops 2) Recommendations on the selection of modern, efficient pesticides (fungicides), dosages and treatment phases 3) Selection of protectant for seed treatment, recommendations on the selection of disease-resistant varieties		
<b>2.8</b>	<b>Soil science and agro chemistry</b>				
2.8.1	Research and consultancy services on the	Recommendations on the system of perspective	Determination of agrochemical soil parameters of NPK (nitrogen, phosphorus, potassium, micro and macro elements)	1	From 4700 tenge/test

	development of resource-saving soil fertility management practices and productivity of cereals, legumes, oil seeds and forage crops	fertilizer for the region of grain, pulses, oil seeds and forage crops			( up to 15 days depending on the <i>scope of work</i> )
			Determination of NPK application rates in a particular economy		According to the agreement, based on the list of volumes and services required ( up to 30 days depending on the <i>scope of work</i> )
2.8.3	Research and consultancy services on the creation and use of non-traditional crops for biologics	Development of technology on the creation of complex reclamation-fertilizing mixtures of carbonaceous and organic waste on micro-organisms basis (CICC)	Recommendations on the use of fertilizer mixtures		According to the agreement, based on the list of volumes and services required
<b>3.</b>	<b>Services in carrying out courses in the Global navigation satellite systems</b>				
3.1	Services in carrying out courses in Earth's remote sensing	Training in the ERDAS IMAGINE program	According to results of course experts will be able: 1) To correct ERS pictures 2) To create orthophotomaps 3) To decode 4) To digitize and make out the vector card	2	According to the agreement, taking into account the list and amounts of required services ( <i>till 30 days depending on volume of works</i> )
3.2	Services in carrying out courses in the Global navigation satellite systems	Training at the GPS receiver	According to results of course experts will be able: 1) To connect GPS receivers to the base station 2) To set up the GPS receiver 3) To create plan and height control by means of the GPS receiver 4) To take photo by means of the GPS receiver 1) 5) To set out and to mark out by means of the GPS receiver		According to the agreement, taking into account the list and amounts of required services ( <i>till 30 days depending on volume of works</i> )

3.3	Provision of services on implementation satellite and geoinformation technologies in various industries	Use of satellite technologies in Land Cadastre	1) To receive space pictures of open access 2) To order on space survey 3) To correct space pictures 4) To create vector cards for the analysis		Contract research in cooperation with other organizations (under the agreement ) )
3.4		Use of satellite and geoinformation technologies for monitoring of soil fertility	1) To receive space pictures of open access 2) To order on space survey 3) To correct space pictures spectrally 4) To create vector data 5) To define indicators of soil fertility 1) 6) To analyze changes of soil fertility		
3.5		Use of satellite and geoinformation technologies for monitoring of a phytosanitary condition of agricultural crops	1) To correct space pictures spectrally 2) To create vector data 3) To define indicators of a phytosanitary condition of crops 4) To carry out the cartographical analysis of change of a phytosanitary condition of crops		
3.6		Use satellite and geoinformation technologies for monitoring of water and forest resources	1) To correct space pictures spectrally 2) To create vector data 3) To define a condition of water and forest resources 4) To carry out the cartographical analysis of change of a condition of water and forest resources		
<b>4. SERVICES IN THE SPHERE OF DESIGN AND ENGINEERING</b>					
4.1	Modeling	Creation of visual volume (three-dimensional) architectural space: 1.1. Small architectural form 1.2. Modeling of buildings and constructions	Making of models of any complexity	2	According to the agreement, taking into account the list and amounts of required services
4.2	Development of the corporate identity	Main package of development of the corporate identity: - corporate documentation (letterhead, envelope) - graphical constants (logo, corporate and trademarks)	Album in A3 format, disk	2	According to the agreement, taking into account the list and amounts of required services

		<ul style="list-style-type: none"> <li>- coloristic decision</li> <li>- means personal identifications (business card: personal, image; badge)</li> <li>- slogan</li> </ul>			
4.3		<p>Extended package of development of the corporate identity (in addition to the above mentioned):</p> <ul style="list-style-type: none"> <li>- corporate type ramp</li> <li>- trademark, label</li> <li>- corporate folder, notebook</li> <li>- P.O.S materials (pen, packets, disk, badges, calendars, packaging)</li> <li>- brand name clothes</li> <li>- advertising products (flyer, booklet, leaflet)</li> <li>- promotional items (indexes, plates, pictograms)</li> <li>- outdoor advertising (sign, pole, branding of stained-glass windows, an operating mode, advertising in transport, lightbox, a painted wall, the city board)</li> </ul>	Album in A3 format, disk		According to the agreement, taking into account the list and amounts of required services
4.4	Interior development of living and public rooms	<ul style="list-style-type: none"> <li>- re-planning of rooms (on-site visit for measurements, schemes of the functional and technology solution of space taking into account re-planning of rooms)</li> <li>- development of the</li> </ul>	Album in A3 format (drawings, schemes), disk	2	According to the agreement, taking into account the list and amounts of required services

		schematic design (with application of manual graphics or 3D visualization) - development of working drawings (for schematic design) - conducting architectural supervision of project execution			
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**Note:**

1 - Akmola, Pavlodar, North Kazakhstan, Kostanay and Karaganda oblasts

2 - Across all territory of the Republic of Kazakhstan

3 - East Kazakhstan

4 - Akmola, Pavlodar, North Kazakhstan and Kostanay oblasts

5 - Akmola, Pavlodar, North Kazakhstan, Kostanay, Karaganda and East Kazakhstan oblasts