



## THE PROCEDURE FOR REGISTRATION OF STATE CADASTRAL OBJECTS OF HIGHWAYS

D.O.Jurakulov<sup>1</sup>, F.M.Tojidinova<sup>1</sup>, Sh.Sh.Pulatov<sup>1</sup>

<sup>1</sup>“Samarkand State Institute of Architecture and Civil Engineering named after Mirzo Ulugbekh”, Lolazor str., 70,140147 Samarkand Uzbekistan  
Correspondence: [www.farangiza55@mail.ru](mailto:www.farangiza55@mail.ru)

### ABSTRACT:

The need to create an updated reliable information system on road facilities, their geographical location, legal status, quantitative and qualitative characteristics and economic assessment and provide relevant information for inclusion in the Unified System of State Cadastres, registration of road facilities to provide users with cadastral information The relevance of this research is based on the fact that it is one of the priorities of the agency.

“General view of highways” and “Highways”, “Artificial structures”, “Facilities of regulation and equipping”, “Road intersections and connections”, “Protective structures” and The Republic of Karakalpakstan and the authorized organization of the state joint-stock company "Uzavtoyol" Based on the analysis of the sequence of work performed by the staff of the cadastral department of the district road management enterprise and the district department of the State Cadastral Agency of the Republic of Karakalpakstan and regional administrations on the territory of the region Conclusions on the purpose of the use of roads and the possibility of the results of the study and the division of "Street network categories" according to the purpose of the width of the carriageway.

### 1.INTRODUCTION

In accordance with the Law of the Republic of Uzbekistan "On State Cadastre", "On Motor Roads" [1,2] and the Regulation on the procedure for maintaining the State Cadastre of Motor Roads in accordance with the Resolution of the Cabinet of Ministers No. 152 of June 30, 2005 provides for the registration, accounting, evaluation of road facilities and provides for the mandatory use of state land cadastre information and the state cadastre of buildings and structures [3].

Existing and under construction highways, special facilities for their maintenance and other objects of highways located in the territory of the Republic of Uzbekistan are the objects of HWGC [3].

The need to create an updated reliable information system on road facilities, their geographical location, legal status, quantitative and qualitative characteristics and economic assessment and



provide relevant information for inclusion in the Unified System of State Cadastres, registration of road facilities to provide users with cadastral information. The relevance of this research is determined by the fact that it is one of the priorities of the agency [3,4].

## **2. RESEARCH METHODOLOGY AND METHODS.**

The object of the study is to develop a procedure for registration of road facilities in the state cadastre of roads in Ishtikhon district of Samarkand region.

The subject of the research is "General view of highways" and "Highways", "Artificial structures", "Facilities of adjustment and equipping", "Intersections and junctions of roads", which form the thematic layers of the state cadastre of highways. The formation of the attribute data of the thematic layers "Protective structures" and "Buildings" is to develop a procedure for determining the indicators of legal, economic and construction status [4] on the basis of census data and registration of the results.

The research process used legal, statistical analysis, grouping, systematization, and statistical re-examination of the reliability of the results.

## **3. RELIABILITY AND DISCUSSION OF RESEARCH RESULTS.**

The State Road Cadastre (SRC) is an updated reliable information system on the types of road facilities, their geographical location, legal status, quantity and quality characteristics and economic evaluation, and the value of each road facility, taxation, privatization and for other purposes, and their content is determined and formalized by the normative documents on the conduct of the SRC.

Obtaining information on the composition of the land for the intended use in the land cadastre information on land plots transferred from the state land cadastre to the HWGC, information on the state registration of rights to land plots (information on existing restrictions and prohibitions in servitudes), quantity and quality of land for each highway and its maintenance and on-site registration of special facilities.

"General view of highways" and "Highways", "Artificial structures", "Facilities of adjustment and equipping", "Intersections and junctions of roads", "Road junctions", which form the thematic layers of the state cadastre of all types of highways. In the creation of attributive data of the thematic layers "Protective structures" and "Buildings", the preparation of reports on the status of indicators of their legal, economic and construction status and the creation of cadastral information and The issue of formation of a unified system of state cadastres in the National Geographic Information System is one of the main indicators in the registration of state cadastre objects of highways [4,5] and requires the collection of data in Form 1.

It is expedient to determine the registration data of the objects of the state cadastre of highways (Figure 1) on the basis of their legal, economic, construction status indicators and to register the registration data in Table 1.

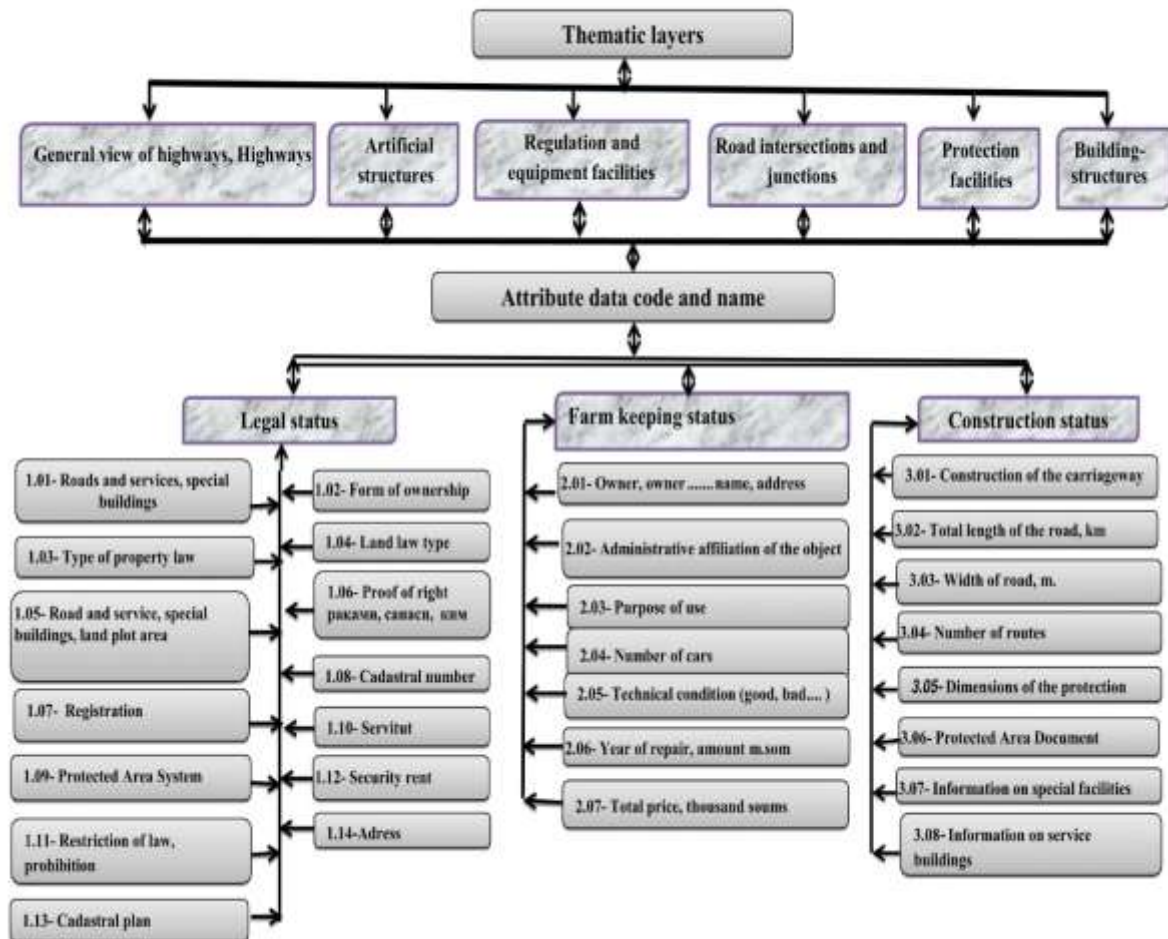


Figure1. Highways registration system of state cadastral objects



Registration of objects of the state cadastre of highways  
transfer data

Table 1

Informations cod	Attributive information	Thematic layers of highway objects					
		Highways overview, Highways	Artificial structures	Regulation and equipment facilities	Road intersections and junctions	Protective construction	Building-structions
<b>1. 1. LEGAL STATUS</b>							
1.01	Road and service, name of special buildings	4R-48 "Zarafshan tract" (Chelak-Mitan-Ishtikhon) highway	K-TB bridge - reinforced concrete; T-B tunnel- concrete; T-KT tunnel- bridge tunnel; SQ-Water Pipeline; ET-electrical network	Road signs: KYB-provider road sign; BYB- Commander road sign; TYB-blocker road sign;	ChK - intersection; ChT-connecting intersection; ChB (T) - management-railway crossing; ChH (T) -protected-magan railway crossing.	KQHD-landslide protection trees; BD-concrete wall; ST-wire mesh;	Ishtikhon district the administrative building of the road use enterprise
<b>2. FARM KEEPING STATUS</b>							
2.01	Name, address of the owner, owner, user, lessee legal entity, individual	Ishtikhon district road maintenance company	Ishtikhon district road maintenance company	Use Ishtikhon district roads nish enterprise	Use Ishtikhon district roads nish enterprise	Ishtikhon district road maintenance company	Ishtikhon district road maintenance company
<b>3. 3. CONSTRUCTION STATUS</b>							
3.01	Construction of the carriageway	Asphalt					



<b>3.07. Number of special facilities, ownership, material, size, condition, cost (thousand soums):</b>							
3.07.1	Bridges		<i>Kk-TB at Pk16 + 22 (15x12-2x2) / 35 4 (at Pk16 + 22 of the highway height length 15m, width length-12 m, direction-2, row-2, load-carrying-35 tons, height-4 m);</i>				
<b>3.08. 3.08. Number, ownership, size, condition, cost of service buildings (thousand soums):</b>							
3.08.1	Administrative buildings						<i>administrative and office buildings: er-0.58 ga, building-0.34 ha</i>



The authorized organization of the state joint-stock company "Uzavtoyol" for registration and registration of objects of the state cadastre of highways employees are required to work in the following order:

1. The cadastral department of the enterprise of road use of the area collects and submits the originals of the following documents and the information concerning each highway and its service and special constructions in the territory::

- name, owner, address, departmental affiliation, purpose of use, category, technical condition, repair, value of the road;
- confirming the right, restriction, prohibition, lease, protected area, cadastral plan, registration, cadastral number of the occupied land plot;
- confirming the total length, width, area, traffic indicators, number of routes, the design of the carriageway;
- name, number, ownership of service buildings, confirming the purpose, size, condition, value, registration, cadastral number of use;
- documents and information confirming the name, number, ownership, material, size, condition, value of special facilities, as well as other documents required as necessary.

2. Employees of the district department of the Chamber of State Cadastre of the Republic of Karakalpakstan and regional administrations of the Cadastre Agency carry out on-site registration, data collection and registration of each highway and its maintenance and special facilities in the region:

- Conducts legal, technical and economic analysis (if necessary, additional inspections may be required) on the basis of originals of official documents and information provided by the Ishtikhan district road maintenance company and draws conclusions in accordance with established procedures;
- draws up a cadastral plan of each highway in the area and its maintenance and special facilities (if there is a cadastral plan, on-site adjustments are made);
- on the basis of the cadastral plan, the actual area of the land plot occupied by the highway, the boundary (on the basis of the act of agreement with border guards), leased land plots, the protected area of the road (if the protection zone is not established - identifies the structures and in the prescribed manner draws up the "Land Cadastre Collected";
- Carries out on-site technical inventory of each highway in the area by category, road material, technical condition, repair and in the prescribed manner draws up the "Road Cadastre Collection";
- conducts on-site inventory of buildings and structures serving each highway in the area and draws up in the manner prescribed by the "Road Cadastre Collection";
- conducts on-site inventory of special facilities serving each highway in the area and draws up in the manner prescribed by the "Road Cadastre Collection";
- The authorized body of Uzavtoyol State Joint-Stock Company will coordinate the "Land Cadastre Collection" and "Motor Road Cadastre Collection" of each highway in the region in coordination with the territorial administrations of the Republic of Karakalpakstan and the regions;
  - The State Cadastre Chamber of the Cadastre Agency submits the "Land Cadastre Collection" and the "Road Cadastre Collection" to the "Registration Department" of the State Cadastre Agency of the Republic of Karakalpakstan and regional administrations for the state cadastral registration;
  - Uzavtoyol for the use of "Land Cadastre Collection" and "Road Cadastre Collection" registered in the state cadastre in accordance with the established procedure and for the preparation



of a report on the condition and use of road facilities and their expeditious submission to the Unified State Cadastre System The authorized organization of the state joint-stock company submits to the territorial main departments of highways of the Republic of Karakalpakstan and regions.

The authorized organization of the state joint-stock company "Uzavtoyol" annually submits cadastral information to the Cadastre Agency for inclusion in the database of the Unified System of State Cadastres (SAS) in April each year after the inclusion of the road object in the territory of the Republic of Karakalpakstan and regional territories.

According to the "Schematic map of the district highway" provided by the district road maintenance company in the area of registration (Figure 1, in the territory of Ishtikhon district of Samarkand region)

on the basis of aggregate data on the territory of the district (Table 2,) and are divided into the following "categories of street-road network" according to the purpose of use of roads in the region and the width of the carriageways:

### Summary information on "Categories of road network" of roads in Ishtikhon district of Samarkand region

Table 2.

№	By the importance of highways	District crossing (km)	Total length (km)
<b><i>Samarkand highway HYFT and Samarkand Highways owned by XDAAYSTFK</i></b>			
<b><i>Highways of international importance</i></b>			
<b>1</b>	M-37 "Samarkand c. – Bukhara c., Turkmenbashi"	44-68	24
<b><i>Roads of state importance</i></b>			
<b>2</b>	Roads of state importance	-	63
<b><i>Local Highways</i></b>			
<b>3</b>	Local Highways	-	227
<b><i>Total public roads</i></b>			
<b><i>On the balance of the district administration and other highways</i></b>			
<b>1</b>	District Center Streets	-	56.0
<b>2</b>	Inter-farm rural highways of the district	-	225.5
<b>3</b>	Streets of rural settlements of the district	--	473.1
<b>4</b>	County sidewalk streets	-	168.8
<b><i>It's all about the district</i></b>			<b>923.4</b>

- Highways of international importance;
- highways of state importance;
- highways of local significance;
- Highways of district importance:
- central highways;
- inter-farm rural roads;
- rural roads;



- city, town highways.

## 4. CONCLUSION

On the basis of the conducted research, opportunities will be created for the positive solution of the following issues:

- When controlling the collection of registration data of state cadastral objects of highways;
- development of the structure of the database, its transfer to road companies, control over the correct completion of the database;
- State cadastre of highways of cadastral employees of regional subsidiary road construction organizations
  - in the organization of training to work with automated information systems;
  - Systematization of cadastral information provided by regional subsidiary road construction organizations and its inclusion in the automated information system of the state cadastre of roads;
  - control over the collection of accounting and evaluation data on new road facilities;
  - Definition of protection zones on highways: 1-2 level national and interstate highways, 3 level national and regional highways, 4-5 level district highways, city highways, coastal streets and inner streets ;
  - Determining the compliance of road protection projects with urban planning and design documentation, as well as the requirements of land management, construction, reclamation, economic and other works for the maintenance of road facilities;
  - Generalization and systematization of attributive data of thematic layers of road facilities in the territory as of April each year and submission to the National Geographic Information System aimed at a single system of state cadastres and integration of state cadastres;

In inspections related to the identification of the consequences of natural disasters, man-made disasters and catastrophes on the territory of the territory - obtaining certain information about the preservation of their structural elements or the degree of damage (damage) in order to determine the amount of damage for design projects.

### Literatures:

1. Law of the Republic of Uzbekistan dated December 15, 2000 "On State Cadastres".
2. Law of the Republic of Uzbekistan dated August 28, 1998 "On highways".
3. Appendix 1 to the resolution of the Cabinet of Ministers of the Republic of Uzbekistan from June 30, 2005 of No. 152 "About the procedure for maintaining the state cadastre of objects of highways of the Republic of Uzbekistan".
4. Resolution of the State Committee for Land Resources, Geodesy, Cartography and State Cadastre of the Republic of Uzbekistan dated September 12, 2014 No 12 "On approval of the Regulation on the content Smart Grid 2014, 5, 1421–1428.