**TECHNICAL TASK**

for performance of geodetic and land survey works

1. **Work Name:** 
   * Geodetic survey, determination of coordinates, identification, development of a registry, cross-reference with existing registry, determination of discrepancies of outdoor on-land advertising objects in the city of Kyiv (billboards, city-lights), managed by Communal enterprise "Kyivreklama" and geodetic survey, determination of coordinates of locations where traffic signs for non-regulated pedestrian crossings are placed.
   * Vectorization of points for driveways (entrances, exits to/from courtyards) as a separate layer of Kyiv city map in the scale 1: 2000.
2. **Aim of Work:**
   * To get the precise information on the location, number, discrepancies of outdoor on-land advertising objects in the city of Kyiv, to compare this information with the existing database and to create a registry to ensure the full control over advertising constructions.
3. **General information and background:**
   * According to CE "Kyivreklama" information, today in Kyiv about 10 000 of on-land outdoor advertising constructions are placed and included into the existing database. It is necessary to check, collect, make geo-reference, upload, compare the information and correctly display it on digital orthophoto plan in the scale at 1: 2000 in KMDA unified database.
   * After getting the results on the actual location of all existing outdoor advertising objects, the **Customer** shall check their locations for compliance with the requirements on placement (distances) according to the Traffic Rules and other normative and legal acts.
4. **Initial data and support of the works that will be provided by the Customer:**
   * Before the beginning of the works, the **Customer** shall provide the **Contractor** all existing information with spatial reference for on-land outdoor advertising objects. In addition, the **Customer** shall provide a list of all objects for which he has information but has no spatial reference.
   * If needed, the **Customer** shall provide presence of CE "Kyivreklama" employees during geodetic survey of advertising objects.
   * For qualitative performance of geodesic works on locations where traffic signs for non-regulated pedestrian crossings are installed, the **Customer** shall provide the **Contractor** a list of all streets where those signs are placed.
   * The **Customer** shall ensure the **Contractor** unimpeded access to the objects of geodetic survey and help to resolve problems related to the above survey should they arise.
   * The **Customer** shall provide the **Contractor** Kyiv vectorized cartographic basis in the scale of 1:2000 for performance of office works and works for vectorising driveways’ points (entrances, exits to/from courtyards).
5. **Amount of works:**
   * According to CE "Kyivreklama" information the estimated number of on-land outdoor advertising objects is about 10 000 (ten thousand). Total number of traffic signs for non-regulated pedestrian crossings is about 3500 (three thousand five hundred). The amount of works could be changed depending on the actual number of objects and paid in accordance with this **Contract**.
6. **Cooperation with CE “Kyivreklama”.**
   * All work shall be performed with participation of representatives from CE "Kyivreklama".
   * For every administrative raion of the city of Kyiv CE "Kyivreklama" shall assign a responsible person who has to cooperate with the **Contractor** and help him to perform his current tasks. CE "Kyivreklama" gives the **Contractor** list of people who were assigned as a responsible persons including their names, contact phones and business hours.
   * Before the beginning of works the **Contractor** studies the initial information, provided by CE "Kyivreklama", specifically its spatial and attributive parts, draws up a working plan for 2-3 days and starts works.
   * After geodetic survey of a territory sector (several streets, quarter or part of raion) the **Contractor,** based on materials provided by CE "Kyivreklama", identifies advertising objects, assigns to every object its unique number and ties it to advertising objects, that were provided by CE "Kyivreklama", if these exist in the database.
   * All other objects that were identified and not identified the **Contractor** transfer for consideration to CE "Kyivreklama".
   * Within 5 (five) days representatives of CE "Kyivreklama" work on identification of advertising objects, obtained in the result of geodetic surveys of a territory sector and transfer results of their works to the **Contractor.**
   * All objects that were not identified the **Contractor** marks by a special code.
   * In case of trip to a place where geodetic surveys are being performed, CE "Kyivreklama" shall provide its representative or a responsible person for quick solution of issues that may arise.
   * Representatives of CE "Kyivreklama" shall take responsibility to provide full and complete information on advertising objects, to work closely with the **Contractor** and quickly solve all issues and problems that may arise in the process of works performance.
7. **Requirements for geodetic survey:**
   * Geodetic surveys will be performed by workforce and equipment of the **Contractor**.
   * Accuracy of the geodetic surveys should be +- 1 meter related to existing points of the State Geodesy network from the central stand of an outdoor advertising object or from conditional center in cases when the construction has two or more stands. In this case the **Contractor** selects the conditional center and performs surveys.
   * Geodetic surveys of non-regulated pedestrian crossings, marked by traffic signs 5.35.1; 5.35.2 and by road marking 1.14.1 and 1.14.3 «Zebra» diagonally according to the Traffic Rules, is performed on both sides of a street. In cases, when road marking «Zebra» does not exist or exists not in the area of a traffic sign location, the survey shall be done in the places of location of traffic signs 5.35.1; 5.35. Accuracy of the geodetic surveys should be +- 1 meter related to existing points of the State Geodesy network from the place of a traffic sign location.
   * In cases where access to the object of survey is limited or someone or something prevents access to the object (road works, construction, etc.) **Contractor** shall try to perform survey "at a distance", and if he fails, the **Contractor** shall notify the **Customer** and make an entry about an object that has not been surveyed with explanation of survey obstacles.
   * All results of surveys are processed by the **Contractor** and transferred to the **Customer** in digital format, compatible with KMDA unified database and coordinate system, which is currently used by KMDA, in the scale of 1:2000.
   * Coordinate system for the works performance is СК-63.
8. **Requirements for attributive information:**
   * By the results of office processing of geodetic surveys, field investigation of survey objects and processing of data provided by CE "Kyivreklama" the **Contractor** shall present to the **Customer** the following information:
   * Survey objects with spatial reference with accuracy, stated in points 7.2-7.3 of this **Task**;
   * Digital photo of advertising object ensuring visibility of its full size;
   * Assigned unique number for each survey object.
   * Identified advertising objects existing on locations and in Kyivreklama database;
   * Identified advertising objects for which there is no information in Kyivreklama database.
   * Identified advertising objects which do not exist on locations but exist in Kyivreklama database;
   * Cross-reference of spatial data obtained in the result of office works with existing information on advertising objects by unique number;
   * By results of vectorising layers of Kyiv map in the scale of 1:2000, a separate layer of driveways’ points (entrances, exits to/from courtyards) should be developed.
9. **Information and materials that should be obtained by the results of this work:**
   * Full electronic (digital) registry with spatial and attributive information for all on-land outdoor advertising objects, placed on the territory of the city of Kyiv and managed by CE “Kyivreklama” or its further use in KMDA unified database.
   * Full electronic (digital) registry with spatial information on placement of traffic signs for non-regulated pedestrian crossings for further control of legality and checking for correspondence to standards of placement advertising objects. Separate digital layer of points for driveways (entrances, exits to/from courtyards).