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PROBLEM ASPECTS OF ACCOUNTING OF BIOFUEL PRODUCTION

High prices for energy carriers all over the world, dependence on their import and increasing awareness of the effects of global warming highlight the problem of production and use of alternative fuels. Many developed countries pay increasing attention to the development and use of biofuel. In Ukraine this development is dictated, first of all, by the energy dependence on other countries. Since agriculture is a manufacturer of biomass, agricultural sector being energy consumer gradually becomes its manufacturer. The technological process of the production of biofuel is new, it has certain peculiarities and requires costs accounting and control over production, as well as its prime cost determination.

Problems of accounting and costing of products were examined by Ukrainian scientists, such as F.F. Butynets, V.A. Derii, V.M. Zhuk, M.M. Kotsupatryi, M.F. Ohiychuk, V.M. Parkhomenko and others.

The results of research on improvement of cost accounting and determination of the prime cost of crop production are essential as theoretical and practical provisions. However, despite scientific developments of leading scholars, it should be noted that a number of problems remain unresolved, namely, methodological support of accounting and costing of biofuel's prime cost.

In this regard, the article more thoroughly considered the following points:

- 1) choice of a method of cost accounting and prime costs calculation;
- 2) determination of objects of accounting and objects of costs calculation;
- 3) list of expenses for calculation;
- 4) accounts generalizing information about the production, availability and movement of biofuel.

The technology of biofuel production requires several phases (processes) in its production. Each of processes contains a set of operations that form a separate process. Each of the processes gives the opportunity to measure quantitative and qualitative parameters of the production process in relation to semi-finished products, and identify the cost of semi-finished products. Therefore, there are reasons to believe that the most appropriate method of cost accounting for biofuel production is process costing.

The objects of cost accounting in the production of biodiesel are production processes, objects of costing in biodiesel production are oil, rape methyl ester, biodiesel, calculation unit – 1 t of oil, 1 t of rape methyl ester, 1 t of biofuel.

In order to increase the informational content of accounting for the movement of biofuels in the company it is considered necessary to open an additional subsidiary account within account 20 “Inventories”, which would allow internal and external economic control over biofuel and its qualitative analysis. Within the proposed subsidiary account № 200 “Biofuel” it is advisable to open additional subsidiary accounts according to classification of biofuels that would facilitate tracking the process of biofuel use.

The feasibility of introduction of an additional subsidiary account 200 “Biofuel” is determined, firstly, by significant difference of biofuel from other objects of accounting displayed on subsidiary account 203 “Fuel”, and secondly, by the users’ needs in information regarding the movement of biofuel in business for both external and internal control and analysis. Biofuel, compared to conventional one, is much more environmentally friendly, that is why we consider it appropriate to make proposals for external environmental control over enterprises’ activity to assess the impact of their activities on the environment.

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