

DEVELOPMENT OF RULES OF SAFETY TECHNIQUES DURING PRELIMINARY TILLAGE

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Abstract: *This article focuses on the development of safety techniques in the process of preliminary soil preparation, in which information is given about the dangerous factors that occur during the plowing process and the harmful factors that occur during the plowing of the land.*

Key words: *Hazard factor, driving, plug drop, harmful factor, accident, dust, vibration, noise, gloves, headgear*

The energy availability of today's rural economy is higher than ever and growing steadily. Supplying agriculture with modern techniques is constantly increasing.

In addition to quantitative changes in agricultural machinery, important qualitative changes are also taking place: high-speed high-power tractors, extensive hydroficated aggregates, machines for initial and pre-planting tillage, modern combines for harvesting technical crops, automation, control tools and others are in current kilinmok. With this, in addition to achieving high productivity and productivity in agriculture, it is necessary to organize labor protection and safety equipment at a high level in highly mechanized agricultural production.

Land cultivation is the basis of agricultural work, and plowing is considered first of all. The presence of modern techniques requires the development of plowing.

It is necessary for every agricultural worker to know the factors that lead to accidents or injuries to workers in plowing work. Accordingly, by analyzing the dangerous and harmful factors in earthworks, the following were studied:

Dangerous factors that occur in earthworks:

-plug drop. Taking into account that the plug lifting and lowering device is mainly implemented at the expense of a hydraulic device - a cylinder, it is observed that the plugs fall due to defects and malfunctions such as hose bursting, hydraulic cylinder pistons releasing liquid;

- the impact of the plug on people standing around.

These injuries or accidents are mainly caused by the negligence of the tractor driver during lifting and lowering of the plow, during the turning of the tractor;

- adjustment of the working bodies of the plug, falling of the bodies during removal. This can mainly be caused by the carelessness of the people who maintain or configure the plugin;

- tractor rollover. The cases of tractor overturning in plowing work are caused by the employer's allowing the working hours to exceed the set standard according to the

Labor Code of the Republic of Uzbekistan, as a result of the tractor driver falling asleep, as a result of his mental exhaustion, due to the lack of organization of household rooms, and at the same time, the lack of orientation on the topography of the land, It can be caused by not taking into account the level of humidity.

A. Harmful factors that occur during plowing work:

- dust generated during plowing of dry land;
- vibrations and noises from the tractor engine;
- carbon dioxide SO₂ and exhaust gas SO from the engine;
- lack of complete and sufficient lighting of outdoor lighting used to improve visibility;
- excessively hot or cold climate temperature, etc.

Workers adjust the plow for plowing with the participation of tractor drivers, mechanics, and engineers. If necessary, plumbers are invited to this work. Taking this into account, the employer and the labor protection engineer must strictly control the work of developing, announcing and following safety rules for these people.

When adjusting the rotary plow for work, first of all, attention should be paid to the position of the tractor. If the tractor is wheeled, it is necessary to stop the tractor on a flat place in a horizontal position. Usually, the work of adjusting the plugs is started by relying on the braked state of the tractor wheels. According to the rules of safety technology, in addition to the brake system of the tractor, it is necessary to install support devices on the wheels.

In the process of adjusting the rotary plug, the second, i.e., the return path of the plug is also adjusted based on the two-layer condition. For this moment, at least 1,5. from the edge of the tractor plug. you need to stand at a distance of meters. Here - the total distance from the bottom point of the working body in the lowest part of the plug to the highest point of the plug used for its return, m.

After each adjustment of the rotary plug to the work, an external control is required in order to avoid the risk of the plug touching during the test work.

In order to improve the rotary plug part of the tractor, it is necessary to adjust them several times. For each adjustment, removal or installation of the working body in the plug, participants must be provided with gloves, headgear and glasses No. 1879 with transparent glass sides in accordance with GOST 12.4.0011-81. According to the requirements of GOST 12.1.046-81 - "General flat lighting of the workplace", in the case of tractor service and repair workshops, the lighting should not be less than 300 lux in order to improve the visibility of the mounting points and clamps of the working body. This lighting requires the use of fluorescent lamps based on refracted light.

If the rotary plug is tested in special test areas after setting it into operation, the test areas must be separated by special fences from the areas outside the MTP area. Before testing, the mechanic or, if necessary, the mechanic on duty may conduct an inspection and, if no defects are observed, allow it to be tested.

During the test, raising and lowering the rotary plow of the tractor in a straight position and checking its flawless operation are also considered safety engineering rules. In addition to providing workers with safety equipment, it is necessary to create working conditions for them in accordance with the requirements of Uz.RST30108-95. It is mainly implemented and controlled by MTP management staff.

In conclusion, it can be said that, according to the labor law of the Republic of Uzbekistan, not only social, but also economic efficiency can be achieved if all employees of agriculture have excellent knowledge and skills in labor protection, follow the rules of safety equipment.

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