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Annex 1 to Protocol on Authorised Measurement of Ammonia (NH₃) for Tištín Agricultural Cooperative, Nezamyslice Farm, Halls 1 and 2, Business ID 499 70 763

Before the performed authorised measurement of ammonia emissions the under-grille space of the tested hall 1 was filled with Active NS preparation in the quantity specified by the supplier. To assess the reduction effect the measured values were compared to the rated manufacturing emission values measured in the control hall 2 without the preparation application.

The value of the emission factor for ammonia is specified in two thirds of the pig fattening cycle time which in the case of fattening pigs is 180 days on average.

After recalculation of the measured rated production emission for hall 1 in the amount of 5,120 kg of NH_3 per animal per year to the value achievable in the two thirds of the fattening cycle time the rated production emission was calculated with the result 4,518 kg of NH_3 per animal per year. The measured rated production emission for hall 2 is 5,525 kg of NH_3 per animal per year. After recalculation of the measured rated production emission for hall 2 to the value achievable in the two thirds of the fattening cycle time the rated production emission for hall 2 was calculated with the result 5,867 kg of NH_3 per animal per year. The reduction of the rated production emission therefore amounts to 1,349 kg of NH_3 per animal per year.

This value recalculated to percentage of reduction represents 23% reduction in comparison to the control hall and is fully compliant with the requirement of the Goteborg Protocol requiring ammonia emission reduction in stables by at least 20%. Thus this technology may be recognised as reducing and suitable for implementation of the principles of good agricultural practice for the Integrated Operation Permit.

NOTE:

The result was achieved following regular additions of biotechnological preparation to the manure throughout the fattening cycle. In the context of regular inspections of the breed by the control authorities (Czech Environmental Inspectorate) application of the preparation in the following periods need to be documented (for example with invoices issued in the context of the preparation purchases for the required dosage).

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