Effect of conjoint use of manures and fertilizers on yield and quality of soybean grains
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ABSTRACT
A field experiment was conducted to study the effect of use of manures and fertilizers alone and in combination on yield and quality of soybean. Application of chemical fertilizers (50:145:43 kg ha⁻¹ NPK) on STCRC basis recorded the highest grain and straw yield. The physical quality parameters of grain like grain appearance score (out of 10), Seed index value and hectoliter weight was observed maximum under conjoint use of manures and fertilizers. The highest crude protein (42.97%) content was also recorded under conjoint use of manures and fertilizers. Starch content in soybean grain remains unaffected in different treatments. The methionine content in grain ranged from 1.28 to 1.45 g/16 g N. Per cent oil content was maximum (20.84%) under application of 33 t FYM + 8 t Neem cake.