Nutrient Dynamics in Open Field Floriculture: Some Thoughts

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Occurrence of nutrient constraint at any phonological growth stage on multi-nutrient deficient soils could jeopardize the incentives accruing through otherwise balanced fertilization in highly diversified nutrient demanding flower varieties [1]. The current state of knowledge on the subject, especially under open field conditions is very limited, although, technology for protected cultivation using hydroponics is very well established [2,3]. The subject relating open field Floriculture becomes still very complex in the absence of knowledge on kinetics and co-kinetics of different nutrients being partitioned across different growth stages so that the growth stage wise nutrient demand is precisely determined, and accordingly type and source of nutrients are fed synchronising the physiological nutrient demand. Development of microbial consortium (microbial reactor) exploiting the native and natural microbial synergisms (with twin role as growth promoter and antagonistic to soil borne pathogens) is one of the popular methods of providing the desired dynamism to nutrient dynamics within the rhizosphere. Such rhizosphere specific consortia could further engineer rhizosphere's nutrient demand and supply through loading with organic manures in much value added form Longchar and Keditsu [4]. The efforts such as these could only meet their objectivity unless duly supported by an efficient nutrient diagnostics applicable under varying field conditions.

Development of cultivar specific norms nutrient norms (e.g., optimum level of leaf N, P and K were determined as 2.22-2.56%, 0.18-0.25% and 1.80-2.20%, respectively, for open field Gerbera) and soil test rating besides microbiologically loaded substrate for crop like mushroom need a thorough revisit and to be field validated in order to provide their application at regional level [3]. A good success on mushroom need a thorough revisit and to be field validated in order providing the nutrient supply as per canopy size in time domain manner using programmable multi-channel fertigation. Application of open field hydroponics is the starting point to adopt such improvised production technologies. However, it remains to be seen in different flower crops, do we need a different nutrient levels vis-à-vis critical growth stages so that a complete cropwise nutrient logging studies ease out the so called complexity in understanding the nutrient dynamics in flower crops which remained an under-focussed issue for a quite long time [5,3]. Extending vase life through nutrient-water synergy has to be viewed afresh through desired changes in scavenging impact on reactive oxygen species vis-à-vis antioxidant profiling.

References


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