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Summer Field School [Online] on
MOUNTAIN ECOSYSTEMS AND RESOURCE MANAGEMENT
Ivano-Frankivsk Region, Ukraine :: 19-28 September, 2021

DELEGATE PARTICIPANT'S PROFILE

	**Mr. Muddana Sri Sai Charan Satya** *Ph.D. Scholar* School of Natural Resource Management CPGS-AS, Central Agricultural University Umiam. Pin code: 793013, Meghalaya, India Tel: +91 8886125010 Email: csmuddana@gmail.com
Highest Education	Master's Degree (M.Sc. Soil Science and Agricultural Chemistry)
Personal Statement	Dear colleagues! Further I would like to say a few words in order to present myself as the delegate participant for the forthcoming Summer School on 'Mountain Ecosystems and Resource Management'. I am studying Ph.D. in Soil Science and Agricultural Chemistry at School of Natural Resource Management in CPGS-AS, Central Agricultural University, Meghalaya. I did my graduation in from Acharya N.G. Ranga University, Agricultural College, Bapatla in 2018. I have done my Post graduation from College of Post Graduate Studies in Agricultural Sciences, Central Agricultural University (Imphal), Umiam, Meghalaya on topic 'Response of black gram (*Vigna mungo* L.) to phosphorus and boron fertilization and their temporal availability in acid Inceptisol'. I have published four research papers and book chapters. I have acted as Co- Organizing Secretary the International Web Conference on "Perspective on Agricultural and Applied Sciences in COVID-19 Scenario (PAAS2020)" organized by Agricultural & Environmental Technology Development Society (AETDS) during October 4-6, 2020. I also acted as Co-Organizing Secretary in International Web Conference on "Resource Management and Biodiversity Conservation to Achieve Sustainable Development Goals" during 11-12 September, 2020. I have been awarded with "Best Master Thesis Award" on "Response of black gram (*Vigna mungo* L.)

	to phosphorus and boron fertilization and their temporal availability in acid Inceptisol" on 4th International Conference, Global Approaches in Natural Resource Management for Climate Smart Agriculture (GNRSA-2020) During Pandemic Era of COVID-19 conducted by Agricultural Technology Development Society.
Paper/Presentation Title (Unpublished Research or Review or Field Work)	*Soil Test Crop Response Studies on Potato (*Solanum tuberosum L.*) in Acid Inceptisol of Meghalaya*
Keywords	STCR; Potato; Targeted yield; Acidic soils
Abstract (100-300 words)	The present investigation was carried out to study soil test crop response studies on potato in acid inceptisol to develop targeted yield equations for potato. The low productivity of crops is mainly due to the low and unbalanced use of fertilizers. The proper economic dose of fertilizer can be determined based on soil test and crop response (STCR) studies. Soil test crop response studies based on soil test based fertilizers recommendation should be carried out to develop quantitative basis for calculating the profit maximizing dose of fertilizers. STCR concept was developed by Ramamoorthy. It provides a relationship between soil test value and crop yield. Soil test crop response studies of crops varies from region to region. Targeted yield was first advocated by Troug (1960) and later developed by Ramamoorthy *et al.* (1967). Potato is one of the important crops in Meghalaya. It is cultivated in around 18913 ha area of the state with a production of 187047 MT and productivity of 9890 kg ha^{-1} (GoM, 2019). However, the productivity of potato is less in Meghalaya as compared to national average productivity and there is need to increase the yield of potato by giving an economic dose of fertilizers which can be formulated by using targeted yield equations developed by using soil test crop response studies. Since there is lack of information on soil test crop response studies for precise quantification of proper fertilizer doses for obtaining a targeted yield in potato in Meghalaya, the present investigation has been planned to find out the proper economic dose of fertilizer for potato by soil test crop response studies in acid Inceptisol of Meghalaya

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	with the following objectives. To study the response of potato to N, P and K fertilization. To develop mathematical basis for fertilizer recommendation of targeted potato yields and to test the applicability of targeted yield equation on potato.
More Information (weblinks)	