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Analysis of Science Investigatory Projects (SIP) Conducted by Caraga Regional Science High School Students

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Abstract: *This study investigates the Science Investigatory Projects (SIPs) conducted at Caraga Regional Science High School from 2009 to 2020. SIPs serve as a crucial educational tool, fostering scientific research skills among students and preparing them for participation in various science fairs and competitions. The primary objectives are to profile the SIP advisers and assess the types and achievement levels of these projects over 12 years.*

The demographic profile of the advisers indicates a majority are young and female, with various specializations predominantly in Biological Science, Chemistry, and Physics. Their academic qualifications range from baccalaureate degrees to PhD units, with a notable number of them having substantial teaching experience and having attended relevant research training.

The study employs a descriptive, comparative, and correlational research design to analyze the data. The descriptive approach profiles SIP titles, types, proponents, advisers, and awards received, while the correlational method investigates the association between SIP types and their achievement levels. The comparative design examines differences in achievement levels based on advisers' profiles.

Results show a diverse range of SIP types, with a notable concentration in Life Sciences, including fields like Botany, Zoology, and Microbiology. Achievements are categorized into regional, national, and international levels, providing insights into the effectiveness of SIPs based on adviser profiles.

The study highlights the significant role of SIP advisers and emphasizes the need for continuous training and resource support to enhance students' research capabilities. It underscores the importance of SIPs in contributing to scientific knowledge, technological advancements, and socio-economic development.

In conclusion, this research serves as a baseline for future evaluations and improvements in SIPs, aiming to boost scientific inquiry and educational achievements at Caraga Regional Science High School.

Keywords: Science Investigatory Projects, Secondary Education, Research Competitions, Adviser Influence, Student Research