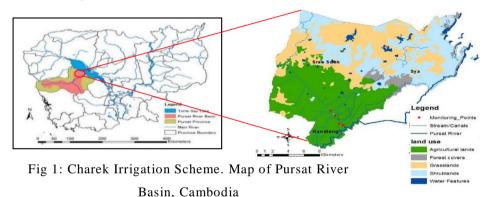# カンボジアポーサット川流域におけるチャレク灌漑地区の水配分計画
Water Allocation Assessment in Charek Irrigation Scheme, Pursat River Basin, Cambodia

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I. Introduction

Cambodia is developing country with more than 80% of the total population living in rural areas, and most of them are depending on agriculture. Water availability is the primary improvement agricultural sector in rural areas, especially in Pursat province. Recently, flood and drought become more frequently and severely, and rice planting areas increases dramatically double in 2025. Meanwhile, water allocation and management are a big challenge in this study area. The objective of this study is to evaluate current water allocation situation in the charek irrigation scheme, and to provide measures to policy-makers and farmers regarding water allocation and management.

Fig 1: Charek Irrigation Scheme. Map of Pursat River Basin, Cambodia

II. Materials and Methods

This research will be conducted in Pursat River Basin of Cambodia, specifically in Charek irrigation scheme. As a methodology of this research, five monitoring points of water level sensor were installed in the canals to record data (Fig 1). Current meter method will be utilized for measuring water flow at different points across the canals. Then, Rating Curve between discharge (Q) and water level (h) will be constructed to determine the flow rate; as a result, water supply in each block is determined. As water demand of the block, water allocation or distribution is recorded by the management administrator manually. Therefore, Water supply and demand are analyzed in the scheme.

III. Expected Results

This study will determine water supply and demand in the scheme; then current water allocation will be evaluated and understood the scenario, and this will provide the basis and measures to policy-makers to deal with water allocation and management effectively.