

C-05 Mi Oya exploitation of NWP

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Mi Oya : Drainage Area - sq.km. 1533, confluence - Puttalam Lagoon, average rainfall - 950 mm, location - Galgamuwa, Anamaduwa Puttalam electorates.

Water quality - high saline hard water. Historical features - Tambapanni Kingdom, Kuveni temples, Racial mixtures, presence of Buddhist, Hindu, Catholic, Muslim. Resources - Timber, Pearl fishing, Elephants, agriculture, reservoirs, cement factory, lagoon fishing, teak forestry. Foreign Visitors - Aryans Dravidian, Arabs, Portuguese French, Dutch, British, Wet run-off coefficient - 0.42.

Objective - to find the minimum water issue from each tank to allow base flow, compensation in the cascade system considering practical difficulties.

Analysis - anicut schemes depend on the base flow of the stream. When land is alienated to farmers and asweddumised it is the duty of the state to provide water from above. The anicut schemes of the lower basin depend on the return flow of Ingimitiya tank, if not paddy lasting for 5 months will not survive. FOO decision to cancel entire Maha crop will create automatic cancellation of all anicut schemes. RBE canal feeds 150 Ac and supply water to 3 minor tanks before reaching Tabbowa. Galkissa Ela now feeds 170 acres. Assuming return flows for 20% and rainfall to recover the canal losses, the necessary base flow is computed. Upper basin comprises Ingimitiya to Tabbowa and lower basin is below Tabbowa.

Name of Scheme	Command Acreage	Minimum Paddy Acs.	Remarks
Pahkadawala	2024	1000	Fairly high rainfall recorded.
Attaragalla	1036	500	
Abakolawewa	829	400	
Mahananuneriya	360	200	
Galgamuwa	409	200	
Ingimitiya	5346	1200	Low rainfall recorded due to the location of this area.
Puliyankulama	72	-	
Uriyawa	294	-	
Koulandigama	29	-	
Mahauswewa	890	200	

Name of Scheme	Command Acreage	Minimum Paddy Acs.	Remarks
Galkulama	91	-	Low rainfall recorded
Galkissa anicut	170	30	
RBE project	150	50	
RBE canal tanks	150	100	
Mankulam	82	-	
Maha andarawewa	344	100	
Tabbowa	2092	1000	Coastal rains are recorded High salinity
Pawatta madu anicut	300	-	
Wattakandala anicut	500	-	
Kottukachchya	857	200	
Pahariya	360	100	

Conclusion : The minimum paddy cropping area in the table has to record as standing orders for the operation of Mi Oya tanks and anicuts. The authorities and farmer organisations shall make it a rule. The sponsorship of Mrs. M D M S Gunatileke & Co is acknowledged