

Rapid Appraisal Procedure (RAP)
MApping System and Services for Canal Operation Techniques (MASSCOTE)
Mapping Systems & Services for Multiple Uses (MASSMUS)
WORKSHOP IN KABINI PROJECT
KARNATAKA

@ KERS, KR Sagara
31st JULY – 11th AUGUST 2023

Resource Persons:

Dr. Daniel Renault – International Irrigation Modernization Specialist, ACIWRM
 Dr. P Somasekhar Rao – Director Technical, ACIWRM, WRD
 M G Shivakumar – National Irrigation Modernization Specialist, ACIWRM
 K G Mahesh – Director, KERS, WRD
 Dr. T N Reddy - Land & Water Management Specialist, ACIWRM
 Dr. Usha A - River Basin Management Specialist, ACIWRM
 Muralidhar N V – National MASSCOTE Specialist, ACIWRM & Executive Engineer (Retd.)

DAY 1	MONDAY 31st JULY 2023
09:30	Arrival of trainee engineers and Registration
10:30	Opening Ceremony - Keynote addresses by Officials
12:00	Presentation by Kabini Project Engineers
13:30	Lunch break
14:30 – 17:30	Introduction to FAO tools RAP-MASSCOTE for developing Modernization Plans
DAY 2	TUESDAY 1st AUGUST 2023
09:00	Vocabulary for irrigation system operation technique and principles of Service Oriented Management
10:30	IRRIGATION STRUCTURES
	- Hydraulic principles- control levels and flows
	- Basic Structures: orifice and overflows, free flow -submerged flow
	SYSTEM OPERATION TECHNIQUES
	Operation organisation: from structures to systems, Flow Control Organisation: Upstream Control-Downstream Control-Procedures for scheduled and unscheduled operation
13:30	Lunch Break
14:30	VOCABULARY ON IRRIGATION MODERNIZATION
15:00	SENSITIVITY of Irrigation Structures
	Exercise on Long Crested Weir (LCW) Design
DAY 3	WEDNESDAY 2nd AUGUST 2023
09:00	PERFORMANCE in Canal Operation and Management
10:00	WATER BALANCE
11:30	MASSCOTE STEP 1 The Rapid Appraisal Procedure RAP: Presentation and preparation for the interview with irrigation manager

12:30	MEASUREMENTS
13:30	Lunch Break
14:30	Multiple Roles of Irrigation Systems , Presentation on canal lining
16:00	RAP PROJECT Office Interviews with Management Staff
DAY 4 & 5	THURSDAY & FRIDAY - 3rd AUGUST 2023 & 4th AUGUST 2023
07:00	FIELD VISIT: Groups' visit to the Kabini irrigation system, Canal system (Main canal, secondary and water courses) <ul style="list-style-type: none"> - Travel down the main canal stopping at all cross regulators - Interview main canal operators - Travel down the distributories & field channels - Visit to Water User Cooperative Societies - Interviews with operations staff and visit of control structures - Visit Lift Irrigation Schemes and collect data
DAY 6	SATURDAY 5th AUGUST 2023
09:00	Preparation of field notes by groups
11:00	Plenary session: each group reports from the field visit
12:30	Group sessions for filling the RAP sheets
13:30	Lunch Break
14:30	Group Sessions
16:00	Plenary session: RAP indicators aggregation and finalisation
DAY 7	SUNDAY 6th AUGUST, 2023 Holiday
DAY 8	MONDAY 7th AUGUST 2023
09:00	MASSCOTE Step 2 (Capacity and Sensitivity)
10:00	MASSCOTE Step 3 (Perturbations)
11:00	Working groups on Step 2 (Capacity and Sensitivity) and Step 3 (Perturbations)
13:30	Lunch Break
14:30	Report on Step 2 & 3 by groups
16:00	Working Groups contd.... Step 2 and Step 3
DAY 9	TUESDAY 8th AUGUST 2023
09:00	Presentation MASSCOTE Step 4 (Water Accounting)
10:00	Water balance reporting (Step 4)
11:30	Presentation MASSCOTE Step 5 (Costing) Group work on COST (parallel activity)
12:00	Presentation Step-6 (Services and Vision)
13:00	Group work on Step 6
13:30	Lunch Break
14:00	Group work on Step 6- Services and Vision
15:00	Report on Step 6 by groups
16:00	Second plenary session on Services and vision , development for water management strategy, service to users, management set-up, operators and objective of management, on water scheduling and targets for canal operation

DAY 10	WEDNESDAY 9th AUGUST 2023
09:00	MASSCOTE Step 7 - Management Units
09:30	MASSCOTE Step 8- Demand for operation - Canal Operation demand and improvement strategies
10:30	MASSCOTE Step 9 - Operation improvements/units
11:30	Group work on Steps 7, 8 & 9
13:30	Lunch Break
14:30	Working Groups contd... Steps 7, 8 & 9
16:00	Reports on strategies for improvements
DAY 11	THURSDAY 10th AUGUST 2023
09:00	Canal Automation – NLBC Case study presentation
11:00	Finalization of the work and preparation of the presentation
13:30	Lunch Break
14:30	Presentation on special topics on request of participants
16:00	Finalization of the work and preparation of the presentation
DAY 12	FRIDAY 11th AUGUST 2023
09:00	Presentation on special topics on request of participants
10:30	Preparation of the final presentation by special group
13:30	Lunch Break
15:30	Presentation of RAP-MASSCOTE outcomes
16:30	Closing ceremony before CNNL management
Additional Lectures on technical topics (Canal Lining, measurements & design of win flume) will be provided depending upon availability of time during the workshop	