



ICID•CIID



International Commission on Irrigation and Drainage (ICID)

Mr Mural S
DGM Civil, L&T Construction, India

Lower Suktel Project
Leading Innovation, Secure Irrigation, empower Prosperity

2nd Indo Global Irrigation Summit
24-25 June 2026, New Delhi India

Lower Suktel Project

Leading Innovation, Secure Irrigation, empower Prosperity

2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India



L&T Capabilities



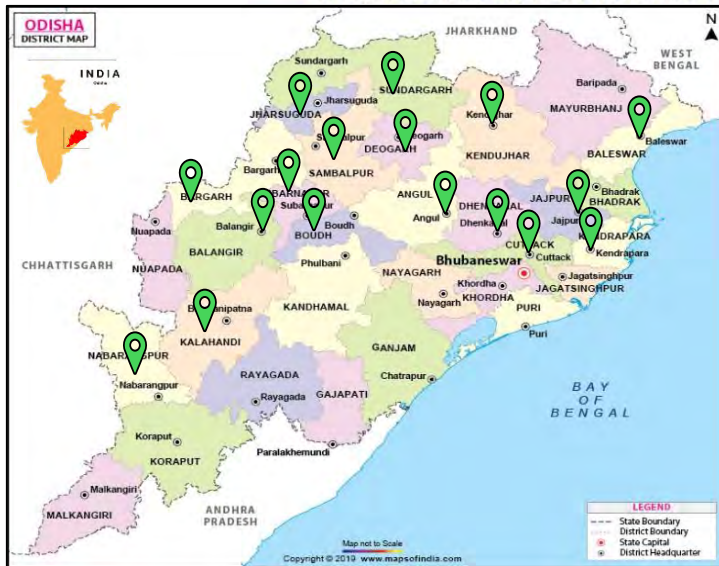
2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India



L&T's Presence in Irrigation Projects at Odisha



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



Irrigation Projects in Odisha

**Total 3 Lakh Hectares
& about 10 Lakhs Beneficiaries**

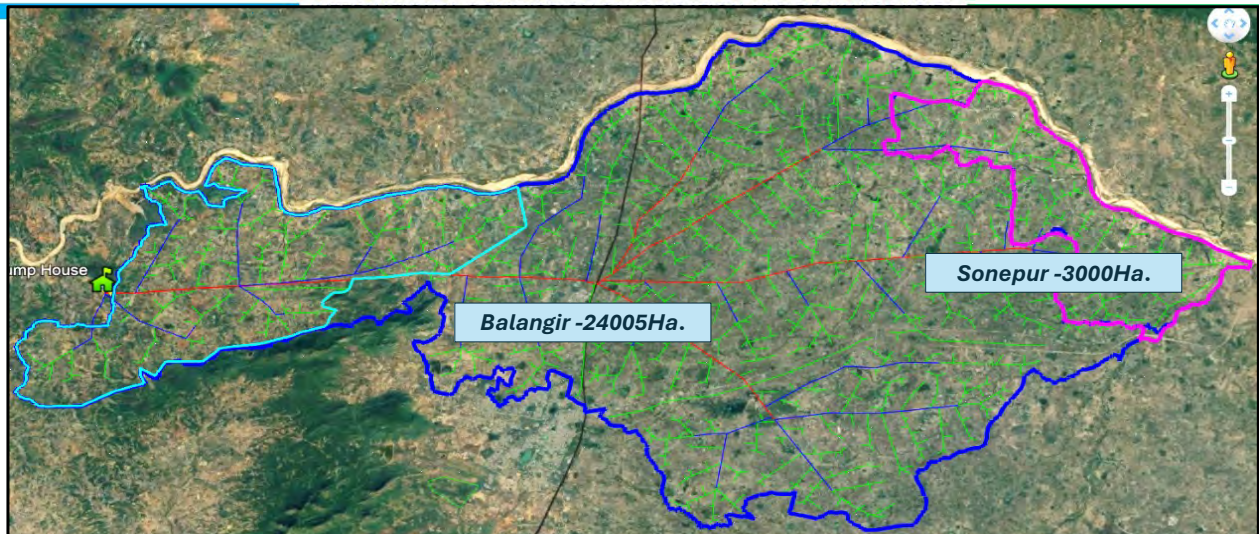
Present in 17 Districts out of 30

Villages Covered: 3309 No's

2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India



Lower Suktel Project - Ayacut Line Diagram



27005 Ha. – LSP Right Command

—	MS Pipe
—	DI Pipe
—	HDPE Pipe

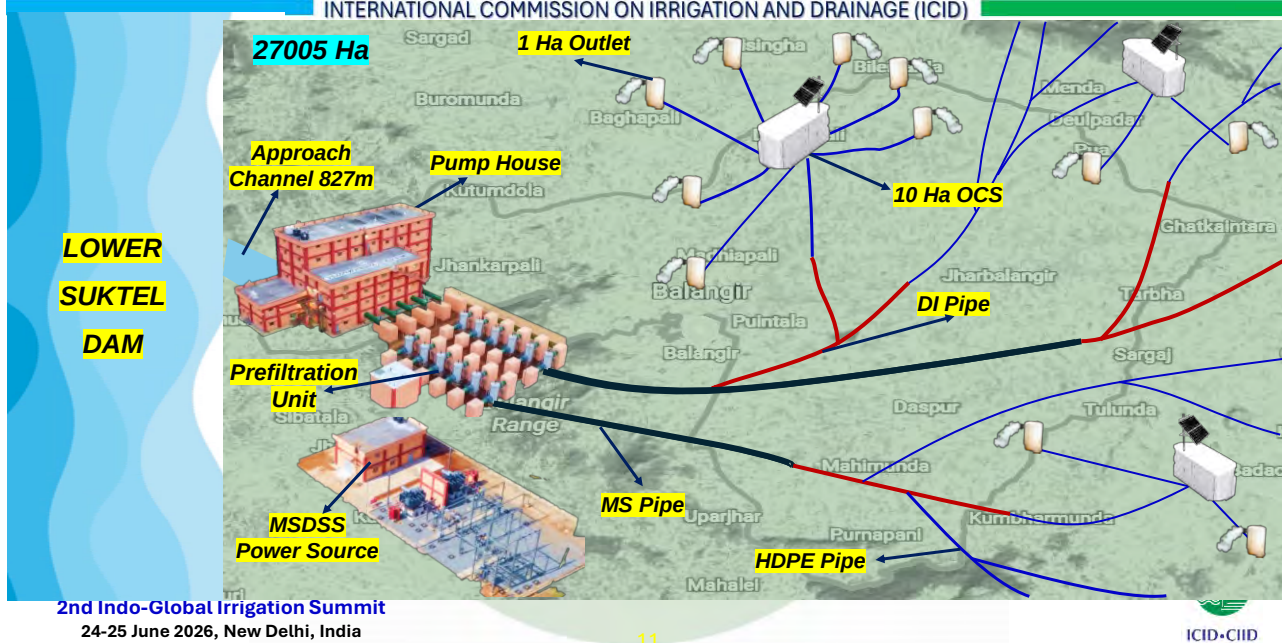
2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India



Lower Suktel Project Typical Layout



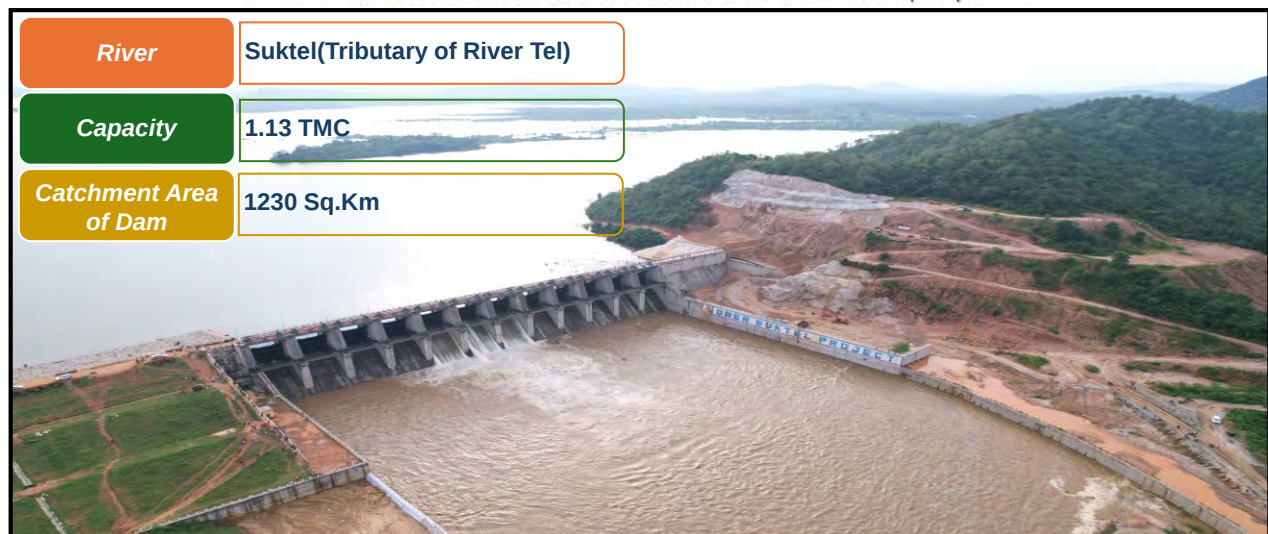
INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



Lower Suktel Project - Source



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Source-Lower Suktel Dam



Lower Suktel Project

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



Infrastructure:

**Pump house complex – 12,168 Sqm
with an Approach channel - 827 M**



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Pump House – Right Command of LSP, Balangir



Lower Suktel Project

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



**Intended to
provide water**

**85% in Khariff & 42% in Rabi cash crops
like cotton, sunflower, and groundnut.**



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Pump House – Right Command of LSP, Balangir

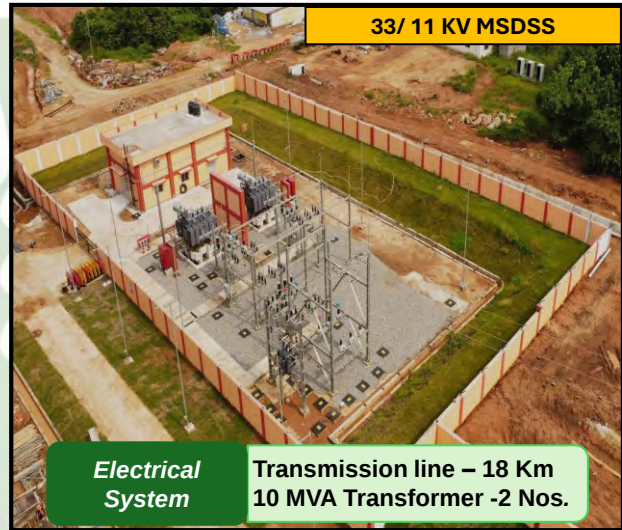


Lower Suktel Project

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



Approach Channel- 827meter



33/ 11 KV MSDSS

Electrical
System

Transmission line – 18 Km
10 MVA Transformer -2 Nos.

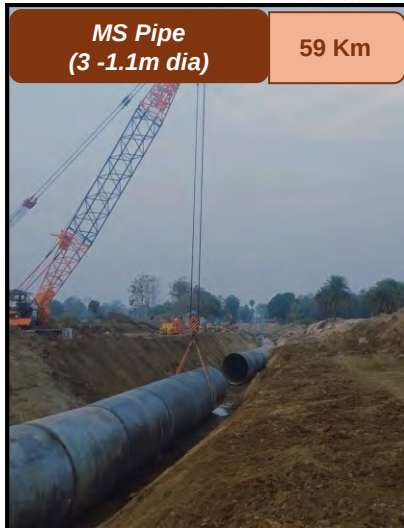
2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

**Project Photos –
Right Command of LSP, Balangir**



Lower Suktel Project

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



MS Pipe
(3 -1.1m dia)

59 Km



DI Pipe
(800 -300mm dia)

125 Km



HDPE Pipe
(280 -75mm dia)

3111 Km

2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Pipeline Network – 3265 Km Completed in 280 days



Lower Suktel Project

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



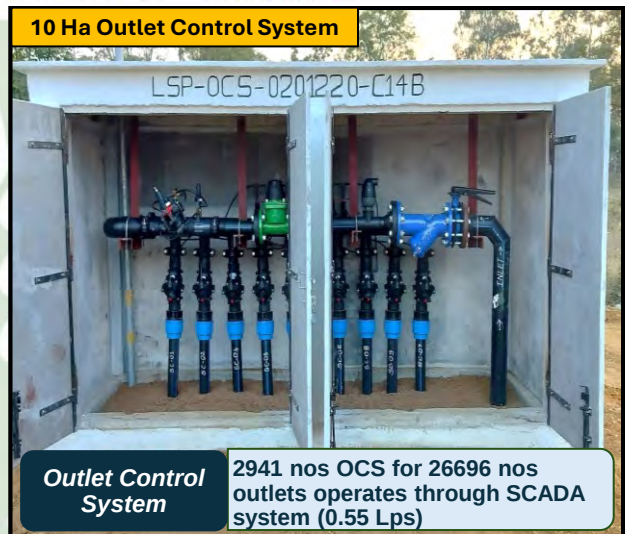
2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

**Project Photos –
Right Command of LSP, Balangir**



Lower Suktel Project

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

**Project Photos –
Right Command of LSP, Balangir**



Lower Suktel Project



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Delivering water to field through 1 Ha Outlets



Lower Suktel Project



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Proposed Demo farm to educate farmers for crop diversification through micro irrigation system



Lower Suktel Project Leading Innovation, Secure Irrigation, empower Prosperity
INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



LiDAR Technology

GIS Based surveying reduced timelines
from Months to Days – 55000 Ha Survey
Completed in 30 Days



Advanced Machinery

Trencher machine engaged to enhance
productivity for HDPE pipeline
laying (Productivity/Hr- 90 mtr)



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Engineering Innovations



Lower Suktel Project Leading Innovation, Secure Irrigation, empower Prosperity
INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



Sustainability

Installed 30 KW of solar power for
lighting & OCS, 53000 saplings planted



Trenchless

First time in Irrigation projects of Odisha
executed trenchless technology, 5 X 4.5 m
RCC precast box pushing of 67 mtr for
Railway crossing



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Engineering Innovations



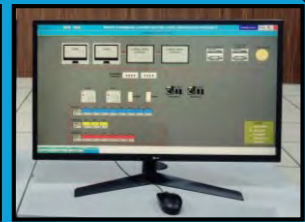
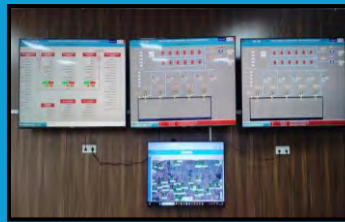
Textile Reinforced Concrete

Introduced TRC panel for OCS (lightweight, corrosion-resistant, easy installation).



SCADA System

Operating OCS through SCADA & providing water on rotational basis and optimum utilization.



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Engineering Innovations



ICID-CIID



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Digital Implementation



ICID-CIID

Lower Suktel Project Leading Innovation, Secure Irrigation, empower Prosperity



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



Assured irrigation to 27005 Ha

Proud to be a part of Nation Building missions



Har Khet Ko Pani



Year-round cultivation drives crop productivity and diversification.



More Crop Per Drop



Sustainable irrigation drives productivity and elevates rural livelihoods in Bolangir and Sonepur Districts



Odisha Millets Mission

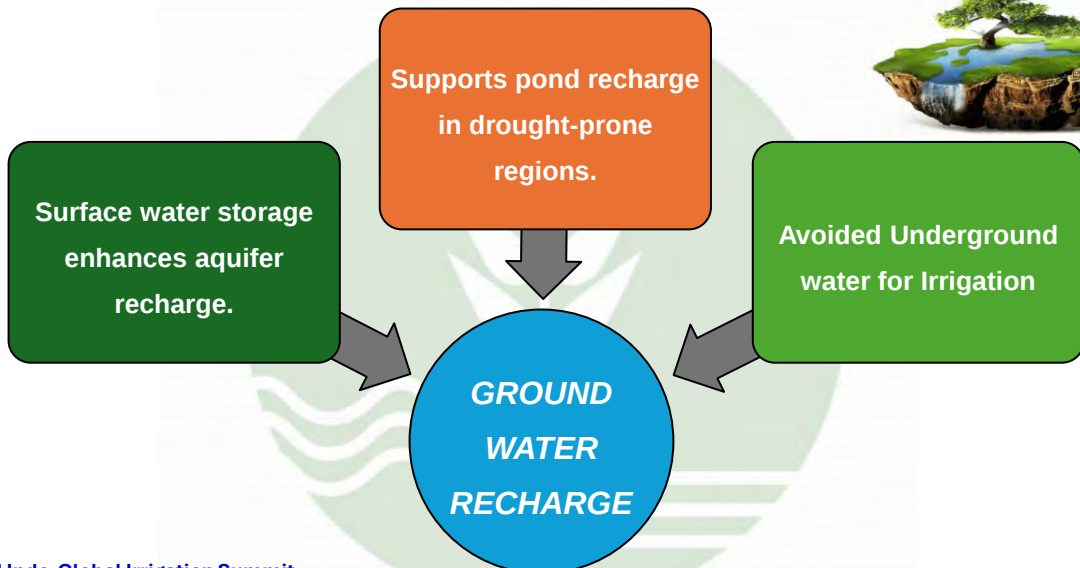
2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India



Lower Suktel Project Leading Innovation, Secure Irrigation, empower Prosperity



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India



Lower Suktel Project - Work force Welfare



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



Height Pass Test



Audiometry Test



PFT Test



Chest X-Ray



Health checkup



Vision Test



Health Camp

2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Wellness & Health Assessment



Lower Suktel Project - Seating Dreams Lighting Futures



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Dual Desk Benches and Solar System Distribution



Lower Suktel Project



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)

Right-of-Way

ROW is one of the major challenge is faced for laying pipelines. Mitigated through continuous follow-up through Grama/Pali sabha along with Department officers and concern District Administration and farmers.

Approvals for Crossings

Parallely taken up approval of crossings at all départements such as NH, Railway and forest and got approved with continuous follow-up.

Mis Use of Materials

Another major issue being faced is misuse of materials trying to address through various awareness sessions and Administrative support.

Adoption Resistance

Doubts over new technology (SCADA & Micro irrigation) – Being Cleared through Commissioning and past records

2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

Challenges and Mitigations



Lower Suktel Project- Accolade



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



Over 2.5 Million safe man hours achieved in Execution Phase.



15th CIDC Vishwakarma Award for EHS implementation FY 2022-23.



BSE Award – Merit Level Winner. FY 2023-24



WSO Award – Silver Trophy Winner FY 2024-25



BSE- 3 Star Certificate received for EHS Implementation. FY 2024-25



17th CIDC Vishwakarma Award for Best Construction projects – FY 2025-26.



Received more than 30 appreciation certificates from Client, DoWR Odisha.

2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

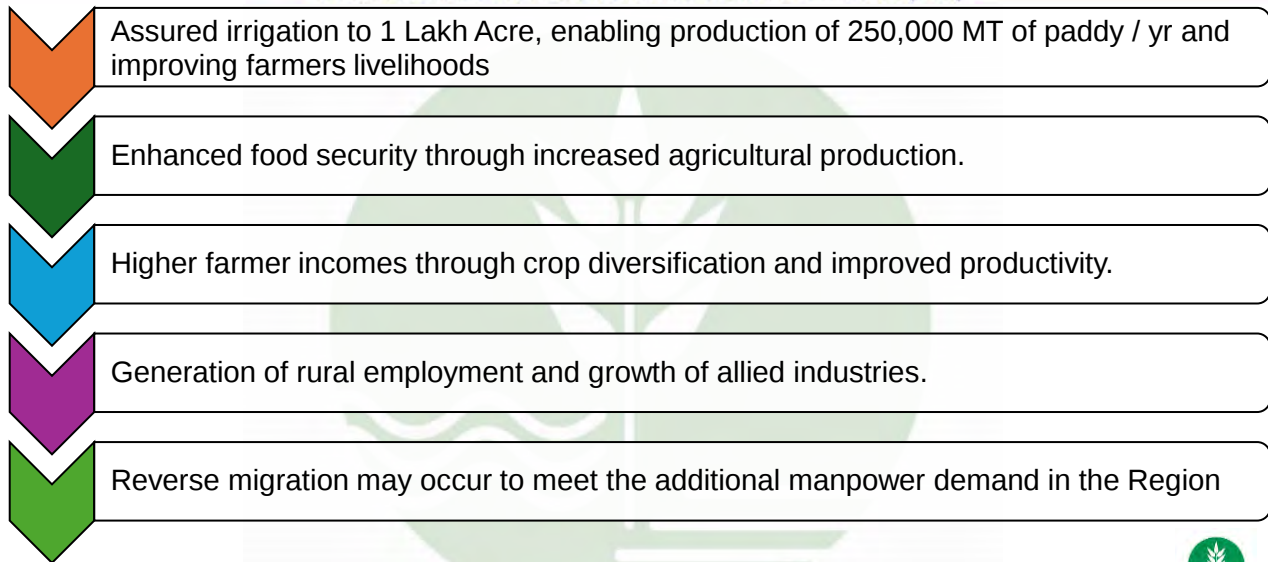
Awards and Achievements



Lower Suktel Project **L**eading Innovation, **S**ecure Irrigation **e**mpower **P**rosperity



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



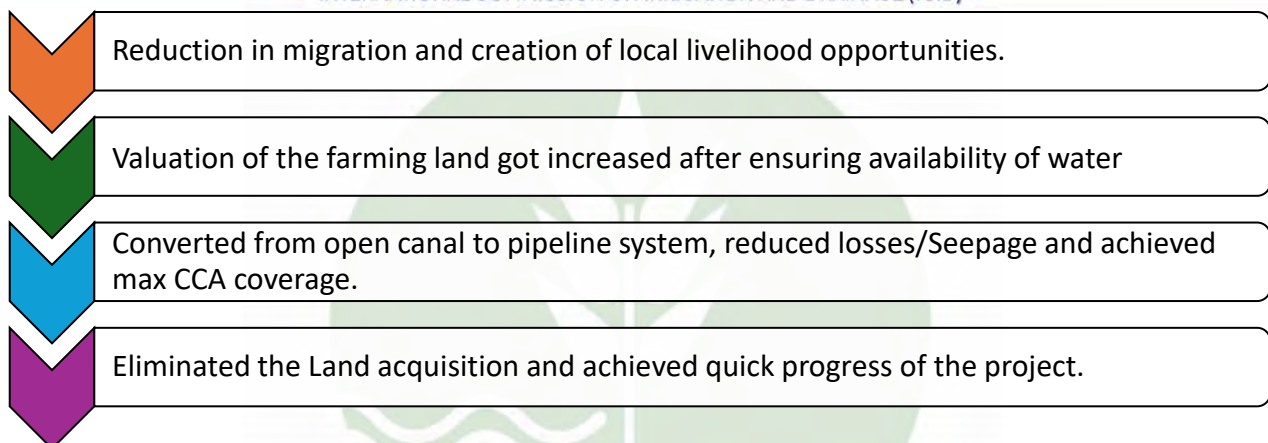
2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India



Lower Suktel Project **L**eading Innovation, **S**ecure Irrigation **e**mpower **P**rosperity



INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India



Lower Suktel Project - From Blueprint to reality: Growth just begun

INTERNATIONAL COMMISSION ON IRRIGATION AND DRAINAGE (ICID)



THANK YOU

2nd Indo-Global Irrigation Summit
24-25 June 2026, New Delhi, India

- Gratitude in Every Drop

