# Resilient Roots

## Leveraging Indigenous Practices for Salinity Adaptation in Southern Bangladesh

**Funded By:**

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**Conducted By:**

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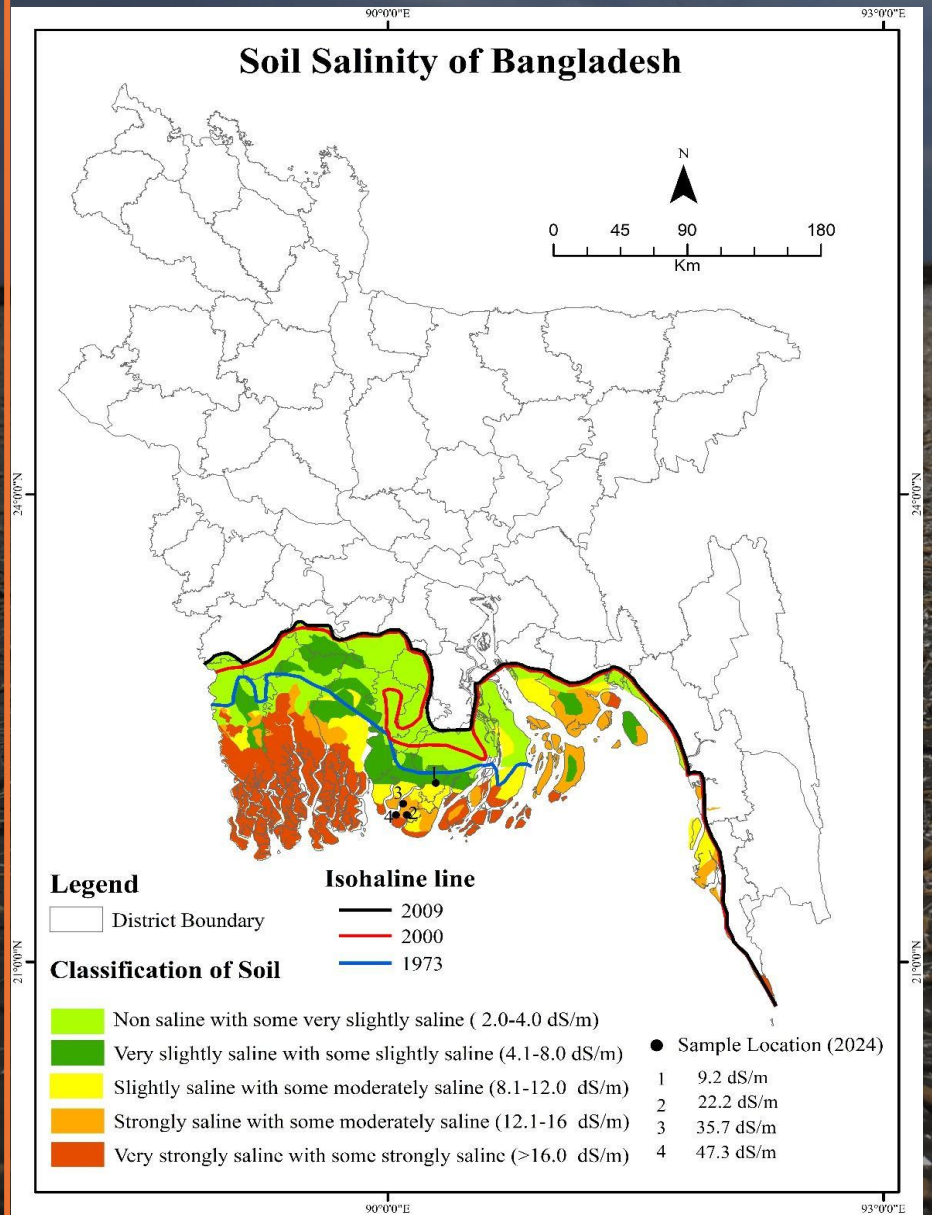
IVM Institute for Environmental Studies

VU

# Impact of salinity along the coastal belt of Bangladesh




- In 2009, the salinity-affected total land area was 2502856 Ha, which was 1205931 Ha in 1973 (SRDI, 1973, SRDI, 2019).
- Within these 36 years, the total salinity affected land increased by 1296924 Ha.
- In 2024 some of the locations were identified as high salinity affected that low or moderately salinity affected

# Scaling Potential Saline Tolerant local rice varieties in Bangladesh

## Identified salt-tolerant rice varieties

- 156 Local Rice Varieties were identified
- Some of these varieties are 7 ds/m salinity tolerant

# Scaling Potential Saline Tolerant local rice varieties

| Variety | Type | Season | Height (cm) | Lifespan (days) | Characteristics | Yield (T/ha) | Salinity (ds/m) |
|---|---|---|---|---|---|---|---|
| Patnai | High-yielding | Boro | 100-120 | 140-150 | Long slender grains, good for cooking | 4-5 | 3-3.5 |
| Kute Patnai | High-yielding | Boro | 100-120 | 140-150 | Short bold grains, good for making puffed rice | 4-5 | 4.5-5.53 |
| Rotna | High-yielding | Boro | 100-120 | 140-150 | Long slender grains, good for cooking | 4-5 | 5-6 |
| Charulata | High-yielding | Boro | 100-120 | 140-150 | Short bold grains, good for making puffed rice | 4-5 | 6.2 |
| Govindavog | High-yielding | Boro | 100-120 | 140-150 | Long slender grains, good for cooking | 4-5 | 5 |
| Nonakhochi | High-yielding | Boro | 100-120 | 140-150 | Short bold grains, good for making puffed rice | 4-5 | 6.58-7 |
| Talmugur | High-yielding | Boro | 100-120 | 140-150 | Long slender grains, good for cooking | 4-5 | 5.86 |

# Scaling potential vegetable varieties in Bangladesh

## Identified salt-tolerant vegetable varieties

- Gima (6.38-7.5 ds/m)
- Kolui (7-9 ds/m)
- Torul (2.2-3 ds/m)

# Scaling potential Indigenous farming technology in the salinity-affected areas

Ghor Krishi

DHAP KRISHI

Macha Krishi

# Scaling potential Indigenous Water and Irrigation Management technology in the salinity-affected areas

Jolpotti

Kuni

Kaite Bera

# Scaling potential Indigenous Food and Seed preservation technology in the salinity-affected areas

Gobre Bij

Kulhar

Gola


info@cpe-bd.org +8802222245156 H # 4/4. Block # F, Lalmatia, Dhaka-1207, Bangladesh

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