

back

cover



Implemented by
Water Resources Investigation & Development Department
Government of West Bengal

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JAL DHARO
JAL BHARO

A campaign for
Surface Water Conservation
since 2011



FLOWING OPPORTUNITIES

Water Resources Investigation & Development Department, Government of West Bengal

JAL DHARO - JAL BHARO

It is a campaign of the West Bengal government to conserve rain water by creation of different type of water bodies throughout the state for sustainable development. It is a combined effort of various programs and projects of the government. Western lateritic, Costal Saline and Northern Hill zones are the key target areas.

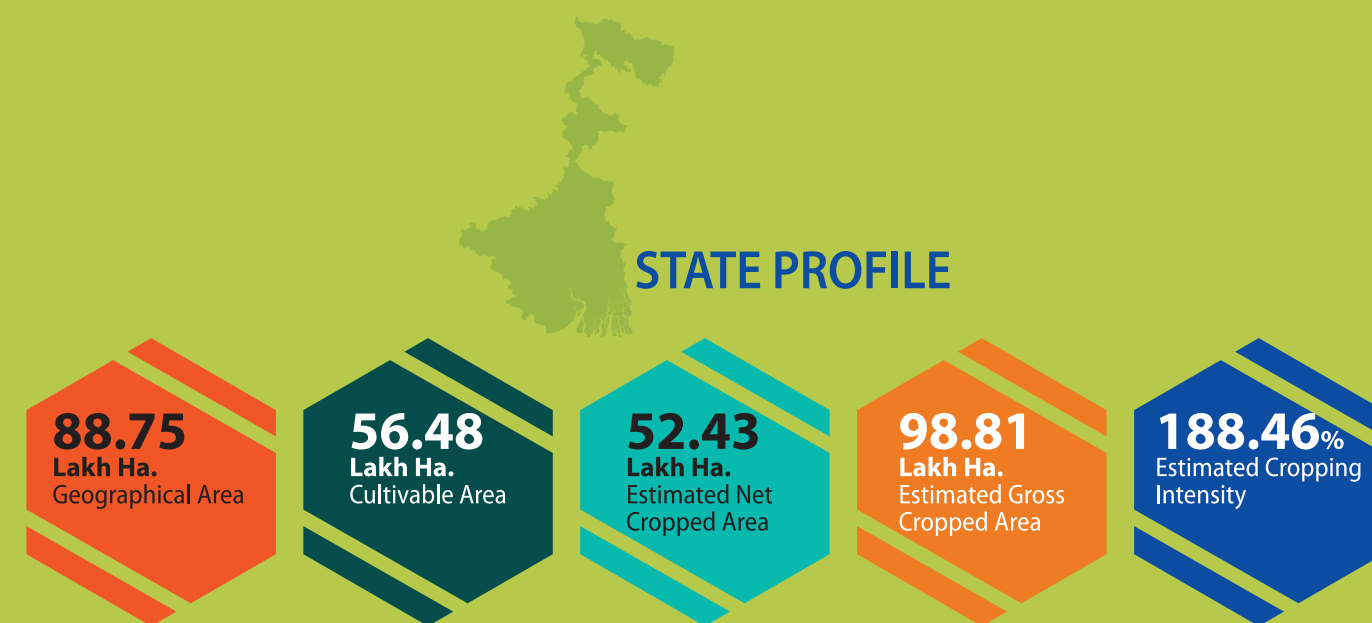
Jalatirtha, MGNREGA, Matir shristi, WBADMIP, RIDF and Core Sector etc are the program / projects taken up by the government for creation of the water bodies.

WRI&DD is the Nodal department. Panchayat and Rural Development is the key contributor for creating large number of water detention structures and farm ponds under NREGA program.

Agriculture, Horticulture and Fishery Department create livelihood opportunities around these water bodies for better utilization of available water and improving income of the farmers.

OBJECTIVE To conserve rain water in different type of water bodies and structures for sustainable development; it's utilization for agriculture & allied activities and ground water recharging.

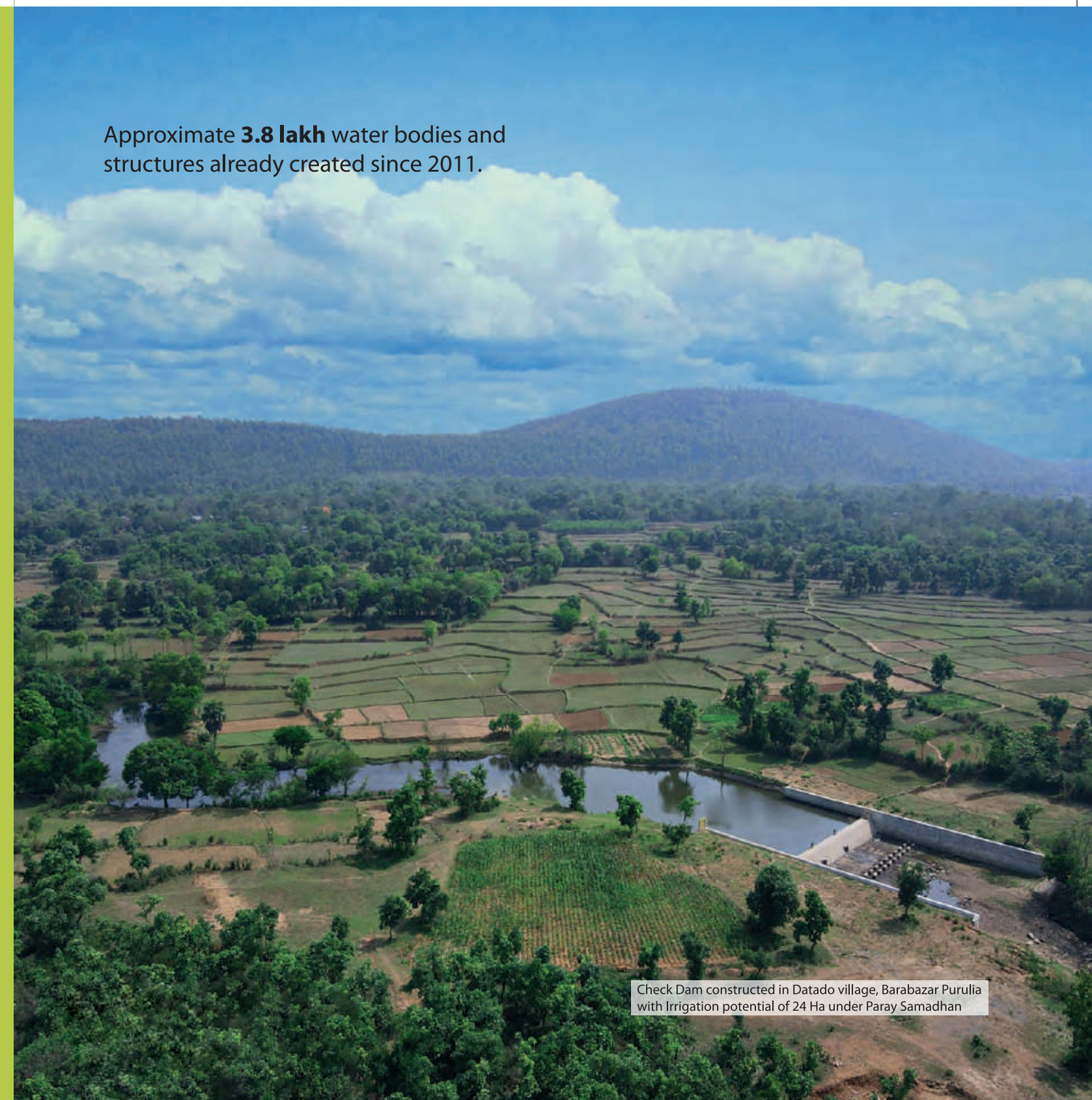




**ASSETS CREATED UNDER "JAL DHARO JAL BHARO"
by GOVT OF WEST BENGAL AS ON MARCH 2022**
Districtwise number of Water bodies/Structures created

1	24 Parganas (N)	37,891	9	Uttar Dinajpur	8,108	17	Nadia	6,561
2	24 Parganas(S)	49,797	10	Hooghly	4,935	18	Paschim Burdwan	1,961
3	Alipurduar	2,795	11	Howrah	7,374	19	Paschim Midnapore	36,052
4	Bankura	31,428	12	Jalpaiguri	8,808	20	Purba Burdwan	17,015
5	Birbhum	39,147	13	Jhargram	7,676	21	Purba Midnapore	59,299
6	Coochbehar	4,056	14	Kalimpong	1,351	22	Purulia	36,627
7	Dargeeling (DGHC)	2,204	15	Malda	2,522	23	Siliguri Mahakuma	205
8	Dakshin Dinajpur	4,985	16	Murshidabad	9,024	TOTAL		3,79,821

Approximate **3.8 lakh** water bodies and structures already created since 2011.



Check Dam constructed in Datado village, Barabazar Purulia with Irrigation potential of 24 Ha under Paray Samadhan

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STRATEGY

Conservation of rainwater to augment ground water resources and facilitate conjunctive use of surface and ground water.

OUTCOMES

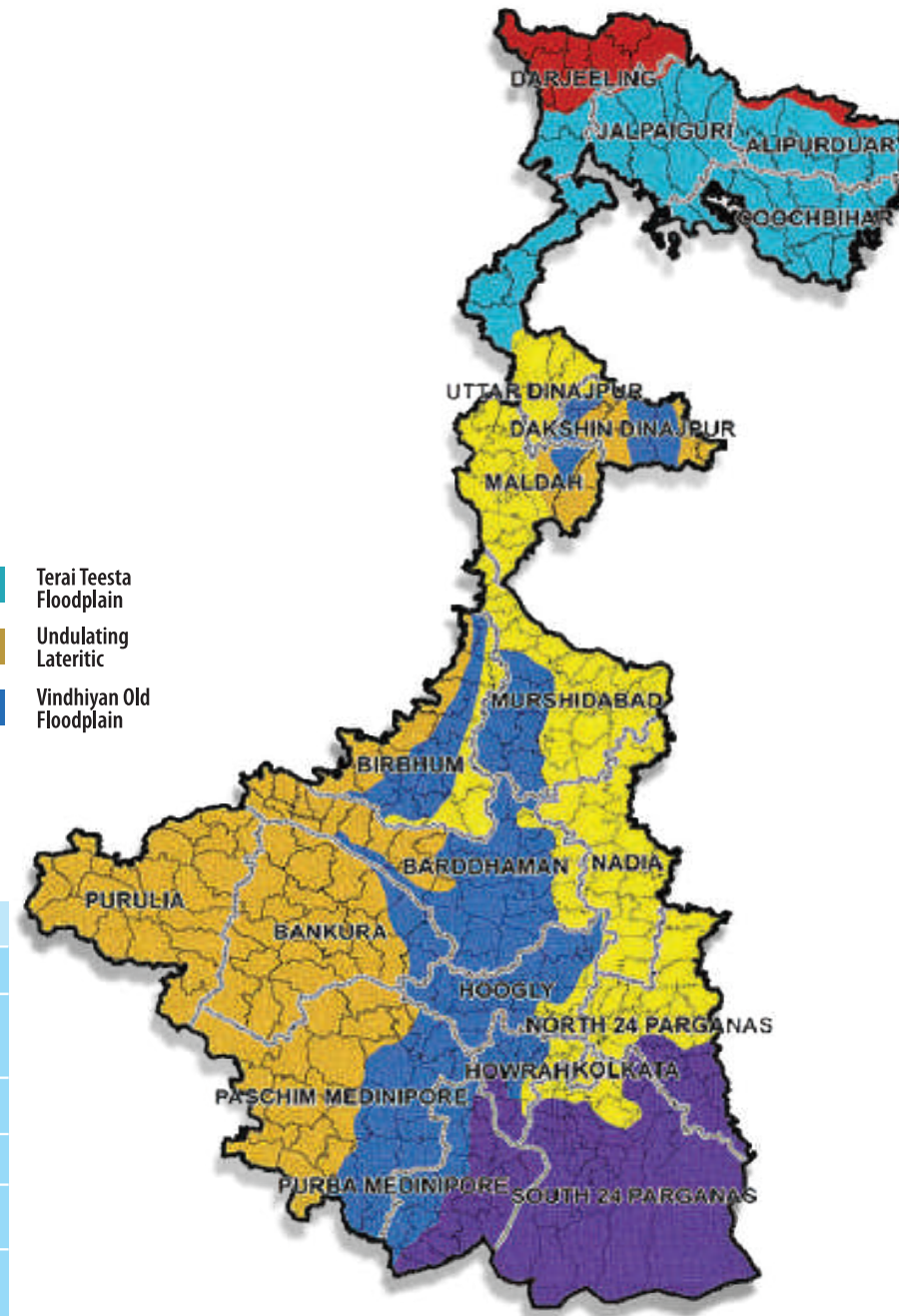
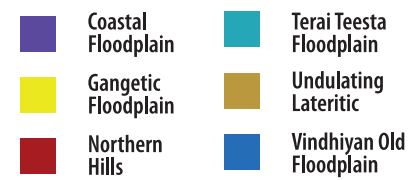
53000 Hectare-Meter volume of storage created/revived. irrigation potential of about 3.13 lakh hectare benefiting about 6 lakh farmers is Created.



Kulna Swandeshkhali Re-excavated canal in North 24 pargans

Development of Minor Irrigation Infrastructure

Irrigation structures are created for water harvesting. Schemes are selected which are suited to different agro climatic zones.



Source	Structure	
Surface Water	Check Dam (CD)	
	Water Detention Structure (WDS)	  
	Re-evacuation of old creeks (canal)	
	Jhora rejuvenation	
	Surface flow minor irrigation scheme	 
	Water harvesting tank	  

Surface Flow Minor Irrigation Schemes (SFMIS) constructed - 906

STORE FOR MORE



Check Dam constructed - 389



Water Detention Structures (WDS)
constructed -1154

Baghaldora Bara Bandh Manbazar-I with Irrigation Potential 24 Ha



Water Harvesting Tanks (WHT) constructed - 989



RE-EXCAVATION OF SILTED CREEKS : SUNDARBAN - A unique initiative helps in building climate resilience.



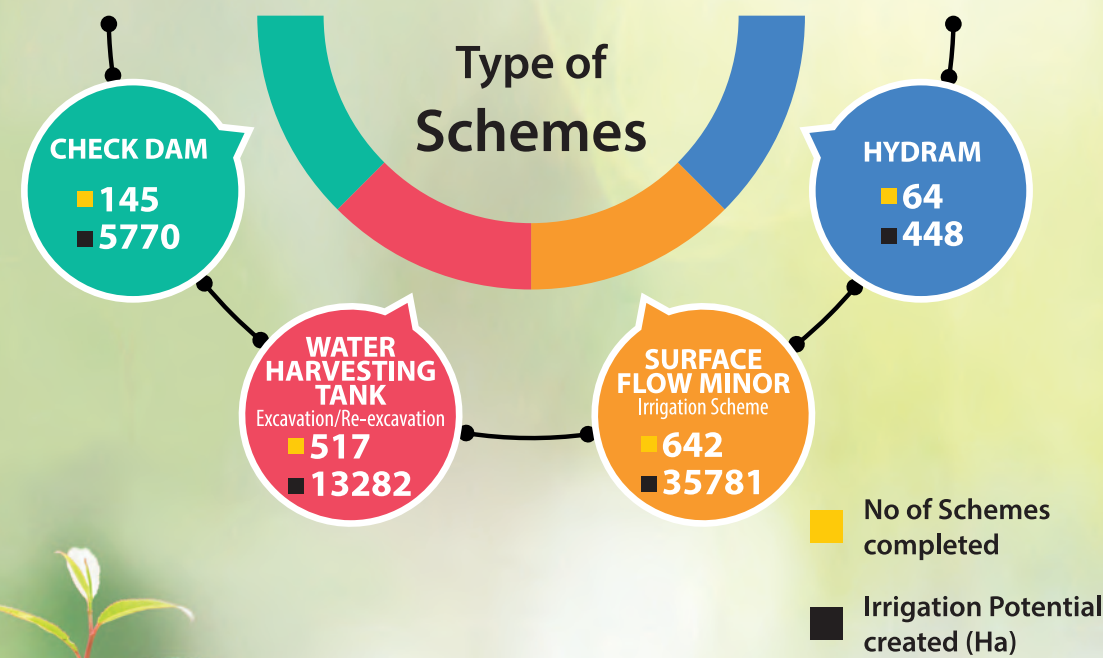
- 💧 546 km of old silted creeks re-excavated
- 💧 Stored rainwater used for irrigation, fishery and domestic needs etc.
- 💧 Recharging of ground water
- 💧 Saline water Ingression reduced considerably in the nearby areas



- 💧 Stream banks are the walkways, planted with fruit trees
- 💧 Helps quick drainage of inundated water due to cyclones which saves standing crops.
- 💧 Fisheries emerging as the core economic activity for socio-economic development through rearing of fresh water giant prawns (Scampi) in a polyculture environment.

JALTIRTHA

Program launched in 2014

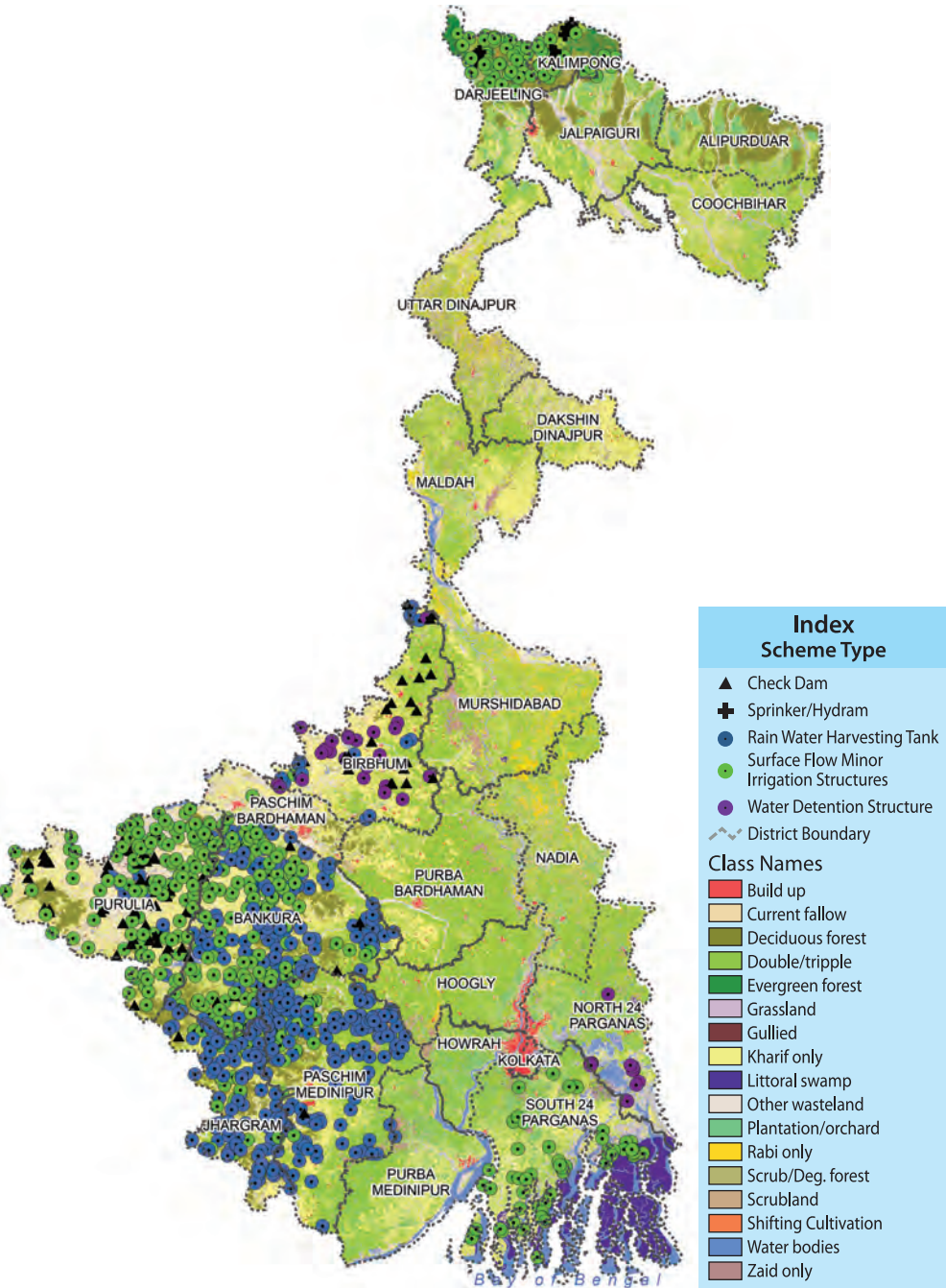


TOTAL
 No of Schemes completed **1,368**
 Irrigation Potential created (Ha) **65,752**

Expected Production of crops & vegetables etc.
 about **2 lakh MT/Year**

Location of JALATIRTHA Scheme, WRI&DD West Bengal

District	Total
Bankura	267
Birbhum	86
Darjeeling	104
Jhargram	170
Kalimpong	60
North 24 Parganas	13
Paschim Burdwan	1
Paschim Medinipur	256
Purulia	354
South 24 Parganas	57
Grand Total	1368



INSTITUTION BUILDING (WATER USERS ASSOCIATIONS)



WUAs are trained for Operation & Maintenance and better water management of Minor Irrigation structures to maximize the use of stored water.

Resigested WUAs **2516**
 Minor Irrigation schemes **5499**
 Irrigation Potential Created **70000 Ha**

Members **193000**
 Demonstrations on innovative practices **88893**
143703 Farmers trained through 7646 training program

HARNESS WATER FOR LIVELIHOOD



Jal Dharo-Jal Bharo (JDJB) has a cascading & induction effect in rural Bengal boosting the rural economy.
41000 water bodies taken up by the Fishery Department for fishery activities.

Assured irrigation for Kharif crop and new area brought under Rabi and Pre Kharif season.
 Oil seed, Pulses, vegetable, Fruit, Flower and fish production also promoted in the command area.

SUCCESS STORY - Gorwing Water Melon

WUAs 74
Farmers 848
Area 180 Ha
Production 3000 MT approx
Watermelon elongated variety
District - Bankura & Purulia @ ₹ 14.50/Kg
earned ₹ 4.35 Crore



Watermelon produced in Bhatuikend Checkdam Command area, Purulia District under WBADMI Project

SUCCESS STORY Mixed fruit plantation on fallow land



Katnimaro village, Sankarail block, Bankura District

Matir Shristi since May 2020

Western Districts - Birbhum, Bankura, Purulia, Paschim Medinipur, Jhargram and Paschim Bardhaman

Sites 4,561

Area 24,000 acre

Farmers involved 37,082

Micro irrigation structures 1200

Water bodies fisheries 522

Mixed fruit plantation

Saplings 46 lakh

Sites 3,509

Area 11,485 acre

Inter-cropping 680 sites

Income to Self Help Groups ₹ 2 crore

Person-days employment generated 74 lakh

SUCCESS STORY

Jhora (Spring) development & rejuvenation and
Floriculture as protected cultivation in the hills



Flower - Gerbera & Carnation
WUAs 4
Farmers 24
Polyhouse 95 sqm each
Flower buds produced 1,91,952
Income ₹ 10,47,550 since 2019



Mul Sakyong & Benda Kagay village, Sakyong & Kagay GP,
Kalimpong-II, Kalimpong District

SUCCESS STORY

Water bodies used for fishery interventions



**Table size Scampi (Fresh water giant prawn)
in the coastal areas South 24 Parganas**

WUA 56
Farmers 3916
Water body area 125 Ha
Production 37.5 MT
Income ₹ 1.69 crore @ ₹ 450/Kg
Scampi breeding 0.8 Ha
Scampi rearing 3.6 Ha
Scampi culture 125 Ha



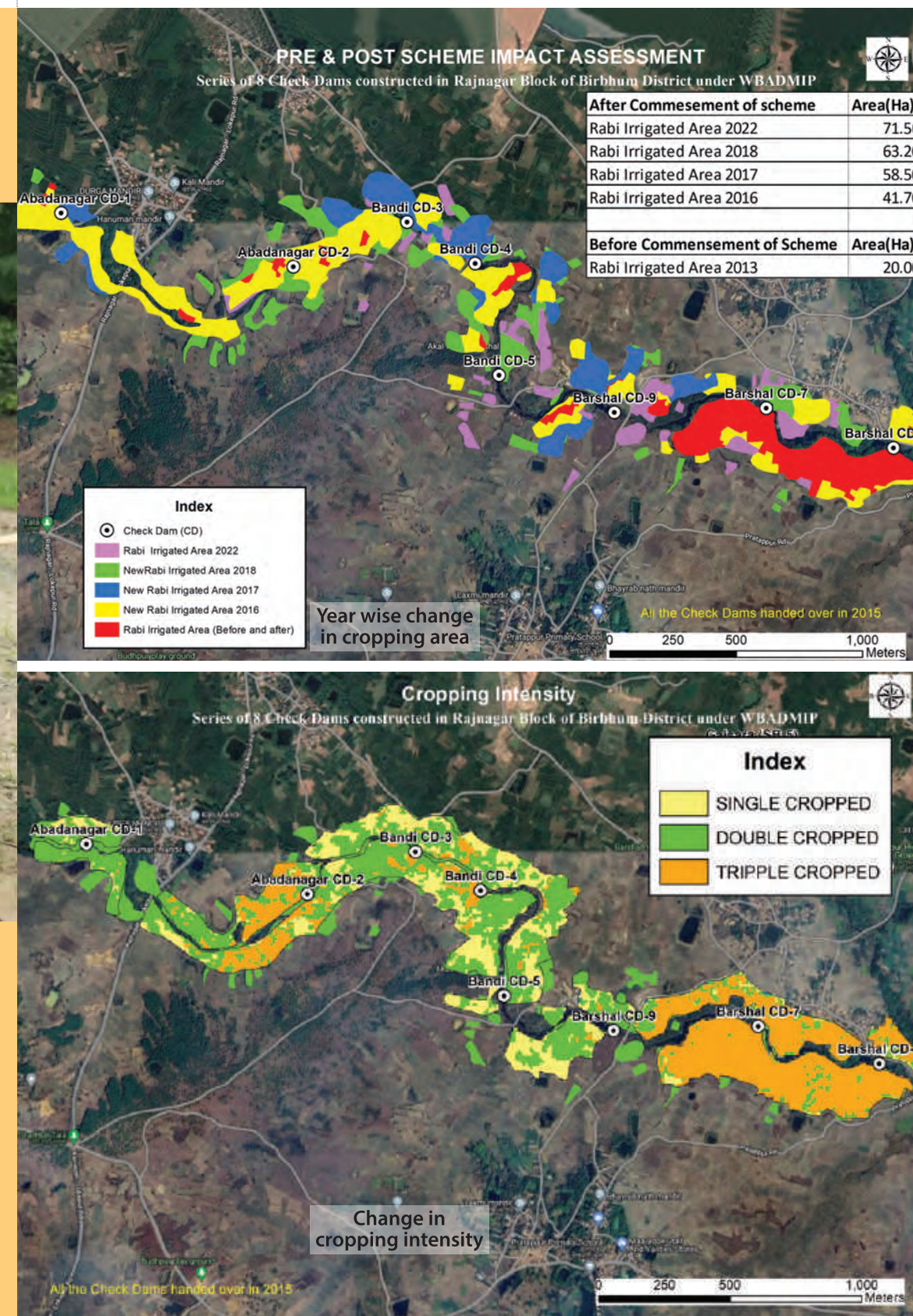
IMPACT STUDY



Findings by International Water Management Institute (IWMI) 2019

- 💧 Crop diversity index changed from 0.23 to 0.28
- 💧 Command area receiving irrigation
 - ▶ Change in Kharif from 6.8% to 53.3%
 - ▶ Change in Rabi 2.0% to 25.8%
- 💧 Cropping intensity changed from 120.1% to 145.1%
- 💧 Median value of profit per Ha
 - ▶ Kharif Paddy ₹ 34595
 - ▶ Mustard ₹ 27696
 - ▶ Potato ₹ 51667
- 💧 Annual Profit ₹ 46703

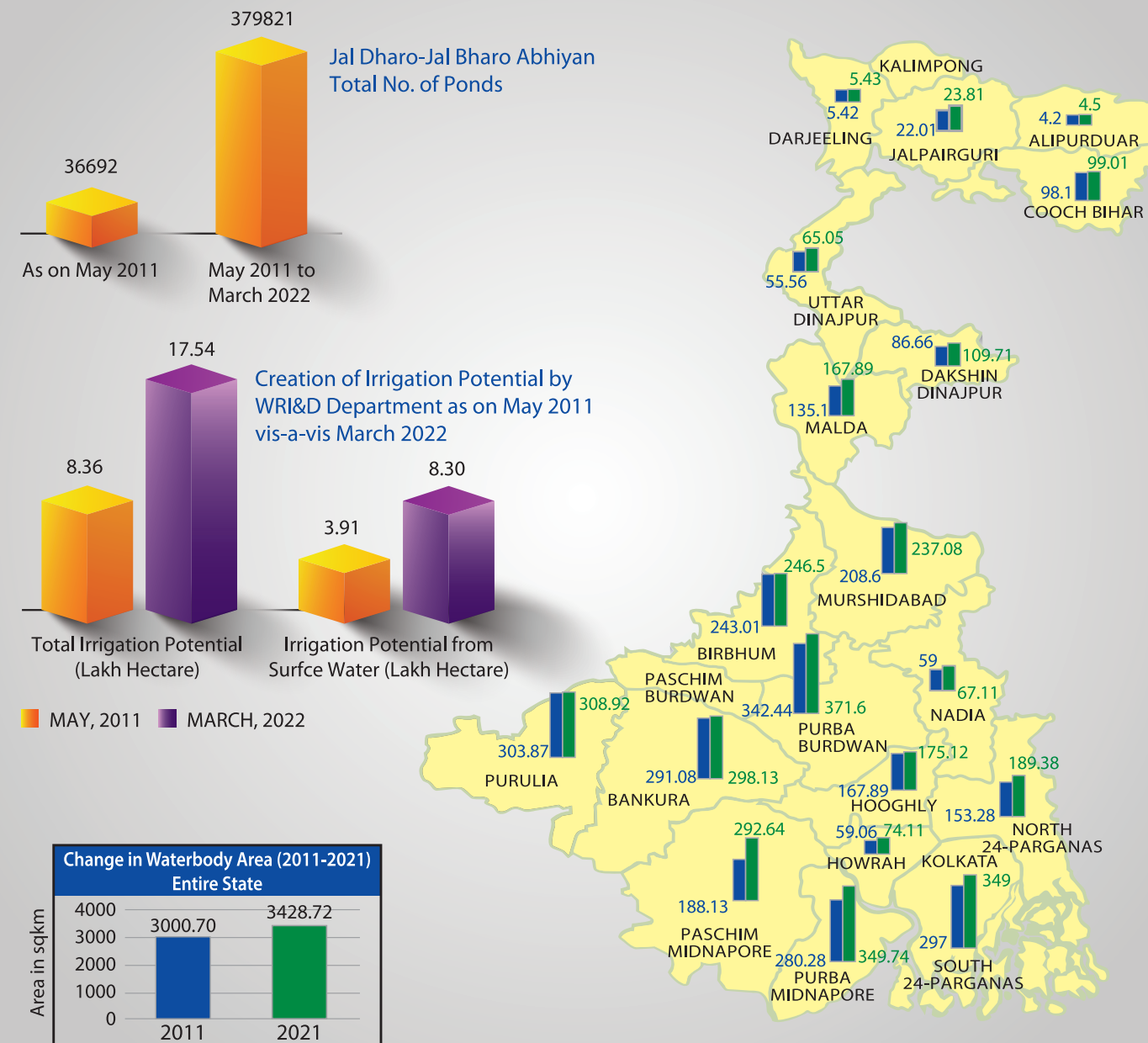
Wherever WUA have been formed and agriculture support services have been provided, the cropping intensity has reached up to 183 percent



Series of 8 Check Dams are constructed under WBADMI Project, covering Abadanagar, Bandi and Barshal villages, Rajnagar block of Birbhum District.

It is a good example of increasing effectiveness with time demonstrated by Water User Associations (WUAs).

DISTRICT-WISE CHANGE IN WATERBODY AREA (2011-2022)



LEADING FROM THE FRONT

National Water Award by Ministry of Jalshakti (MoJS), Government of India for Best Water Users Association (WUA)



3rd National Water Award

All the three awards won by WUAs promoted by Government of West Bengal WBADMI Project of WRI&D Department.

First Prize Panchgachiya MDTW WUA, Hooghly District

Second Prize Hatnada Champabaha WUA, Purulia District

Third Prize Amtore Mini River Lift Irrigation WUA, Purulia District

2nd National Water Award

Third Prize Durlavpur MDTW WUA, North 24 Parganas District.

