

PRIME MINISTER AWARDS 2020

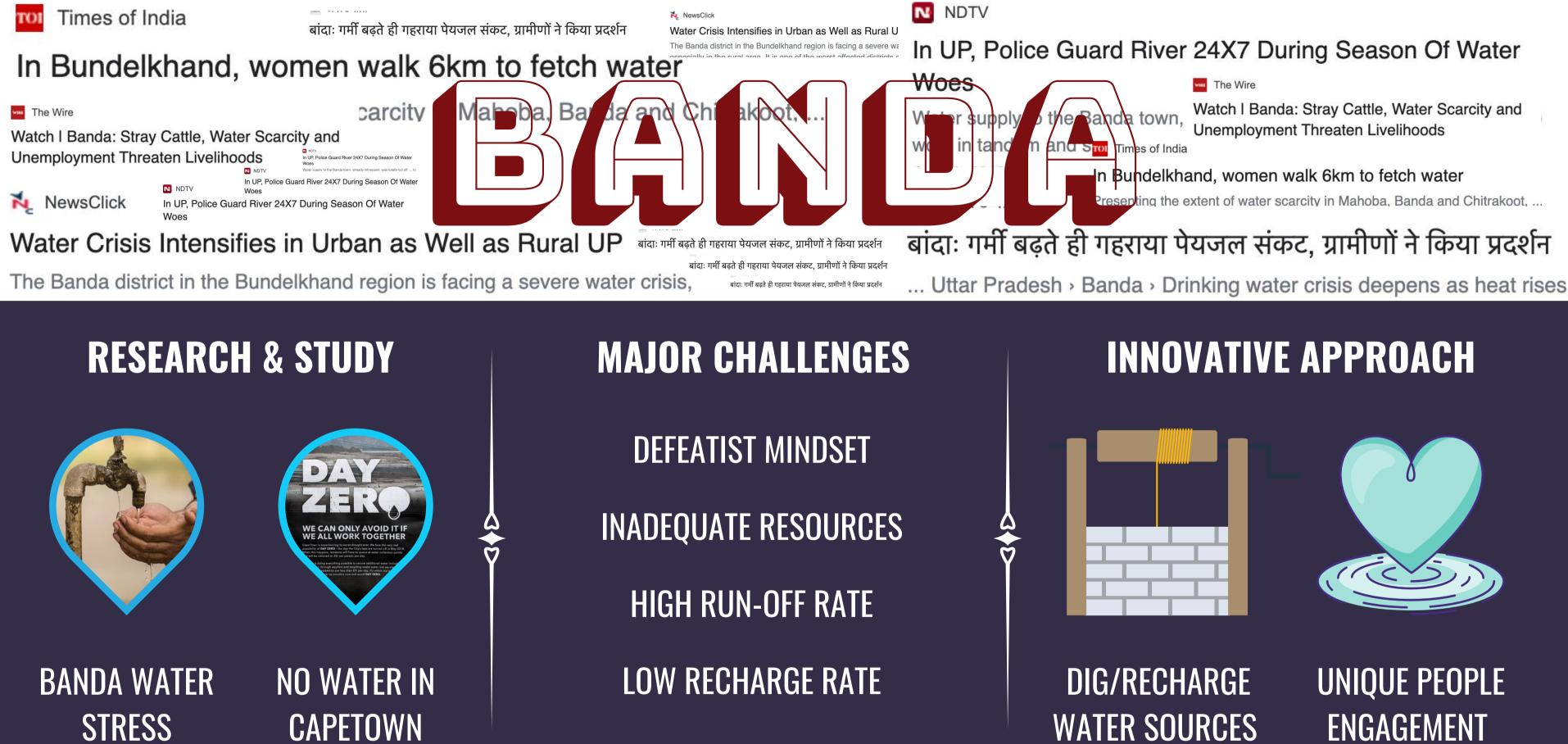
WATER CONSERVATION - INNOVATION (GEN.) DISTRICT BANDA, U.P.

PRESENTED BY: DR. HEERA LAL (EX. DM, BANDA)

PMA ID : INNO/00178







THE SOLUTION

THE DANGEROUS DISCONNECT















IMPLEMENTATION BHOOJAL BADHAO. PEYJAL BACHAO.



MASS TRENCH DIGGING + JAL CHOUPALS + WATER BUDGETING

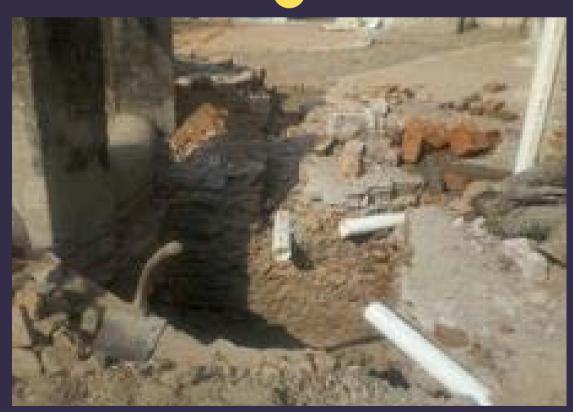


- 2605 trenches built around 2443 hand pumps & wells.
- Conducted in all 471 gram panchayats.
- 34732 direct villagers' participation.

JAL SE JAN AANDOLAN

3930 k.l. conserving capacity, saving 110001 k.l. water annually.

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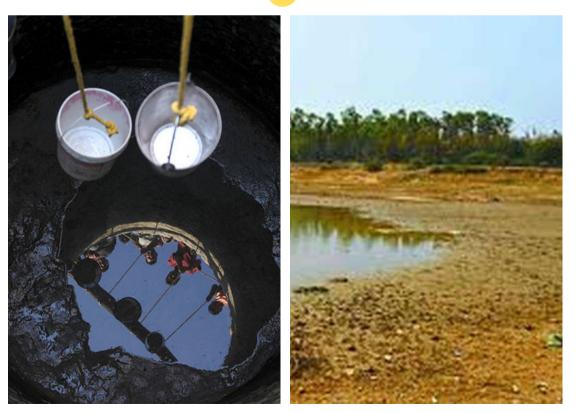


WATER HARVESTING

IMPLEMENTATION

KUWAAN TAALAB JIAO ABHIYAAN

MAY 2019



IDENTIFICATION OF DRIED PONDS & WELLS

REJUVENATION OF PUBLIC & PRIVATE PONDS + MEDBANDI + DEEP DAAN



572 old ponds revived 2233 new ponds created Medbandi at 1311 locations

JAL SE JAN AANDOLAN

10K+ people participated in the march & Oath for 'Water Care' resonated across Banda.



JAL MARCH + JAL SURAKSHA + JAL MUSHAIRA

INTERVENTIONS

choupals in 471 gram panchayats. 34732 villagers 1.Jal benefitted directly; 15 lakh indirectly. 2.2605 trenches around 2443 hand pumps & wells. 3.572 old ponds revived; 2233 new ponds created. 4.82 rain water conservation structures built. 5.1536 recharge pits in schools; Medbandi at 1311 locations. 6. Mass awareness program in 130 villages targeting 6,50,000 villagers located on the banks of rivers Ken, Yamuna & Bage.

IMPACT

Mahua Jaspura Nairaini Baberu

HIGHLIGHT RESULT

	2017				2018		2019			
Block Name	Pre Monsoon (in metres)		Difference (in metres)		Post Monsoon (in metres)		Pre Monsoon (in metres)		Difference (in metres)	
Jaspura	19.21	19.31	-0.1	20.08	20.48	-0.4	20.89	17.79	3.1	
Tindwari	16.48	17.04	-0.56	17.54	17.82	-0.28	18.24	15.81	2.43	

It is assumed and expected that after rainy season, ground water level will increase rather than decrease. Ironically, in two blocks Jaspura & Tindwari water level fell-down consecutively in 2017 and 2018 (post monsoon ground-water level decreased as compared to pre-monsoon level). But, our efforts reversed the trend and brought amazing results in 2019. In 2019, we saw a quantumincrease by 3.1m in Jaspura and 2.43m in Tindwari respectively, because we increased recharge potential in our water conservation initiative. This reversal from negative to positive surpassed people's assumptions and expectations.

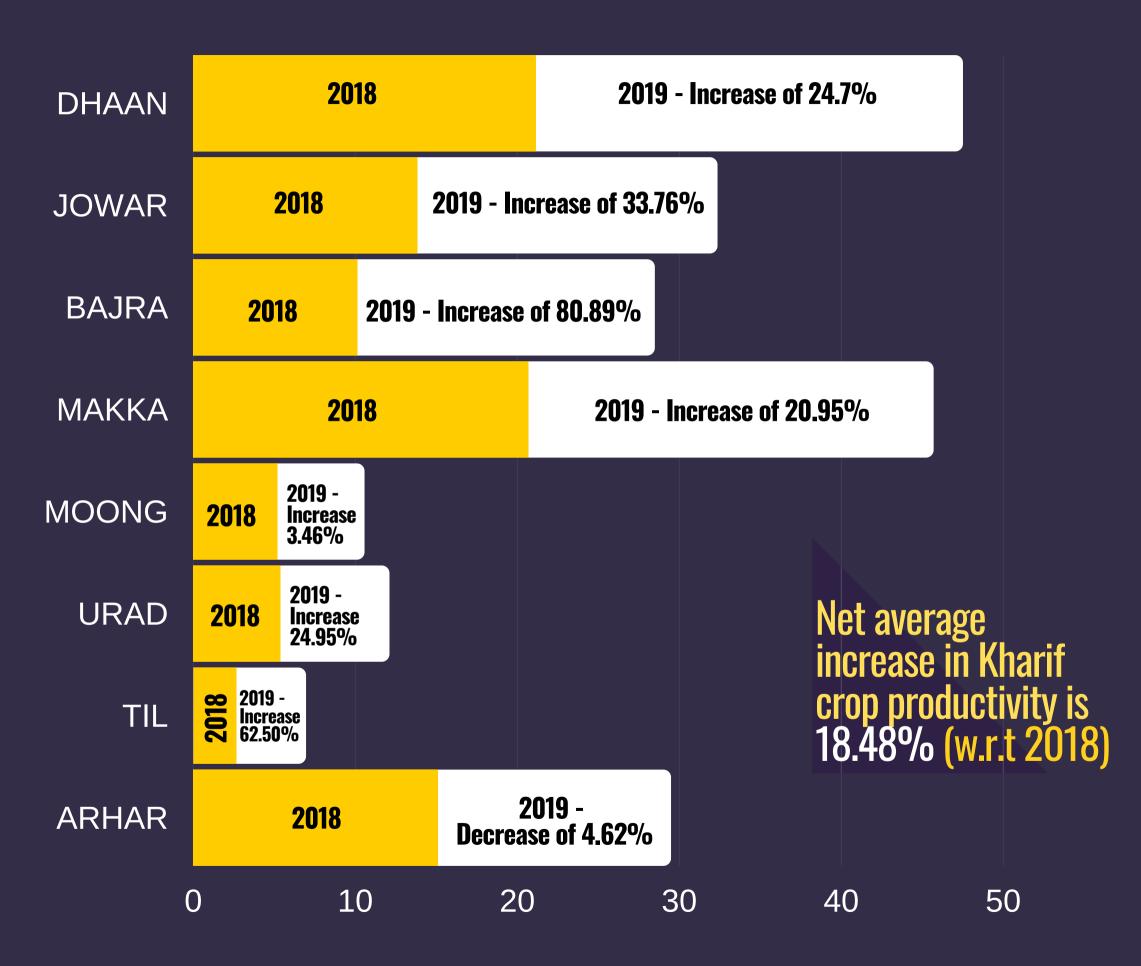
GROUND WATER LEVEL INCREASE

Badokhar --> +1.88 m --> -0.22 m Kamasin --> +1.67 m Vissadda $\rightarrow -> -1.30$ m --> +2.69 m Tindvaari --> +2.01 m --> +1.92 m --> +2.12 m

*Data from Minor Irrigation Department.

Net average increase in water table - 1.34 m

INCREASE IN AGRI-PRODUCE DUE TO OUR WATER CONSERVATION INITIATIVE



जल संरक्षण/वर्षा जल संचयन के विशेष अभियान से कृषि क्षेत्र में प्रगति

जिलाधिकारी महोदय बांदा के द्वारा अक्टूवर 2018 से जल संरक्षण ⁄वर्षा जल संचयन पर एक अभियान के अन्तर्गत कार्य किया गया जिसका कषि क्षेत्र में खरीफ फसलों में निम्नचत् उत्पादकता में बृद्धि हुई।

क0 सं0	फसल का नाम	खरीफ वर्ष 2018–19 की उत्पादकता कु0⁄हे0	खरीफ वर्ष 2019—20 की उत्पादकता कु0⁄हे0	बृद्धि	बृद्धि प्रतिशत
4	धान	21.13	26.35	5.22	24.70
1	ज्वार	13.83	18.50	4.67	33.76
2	वाजरा	10.13	18.33	8.20	80.89
3	याजरा मक्का	20.67	25.00	4.33	20.95
4 5	मयपग मूँग	5.18	5.36	0.18	3.46
5 6	- <u>भू</u> -। उर्द	5.37	6.71	1.34	24.95
7	तिल	2.64	4.29	1.65	62.50
8	अरहर	15.08	14.38	-0.70	-4.62

 धान–धान की फसल में जल संरक्षण / वर्षा जल संचयन से जल स्तर बढने से जल श्रोतों से भरपुर जल मिलने से सिंचन क्षेत्र में बुद्धि होने से उत्पादकता में 24.70 प्रतिशत की बुद्धि हुई।

- 2. ज्वार एवं बाजरा—ज्वार एवं बाजरा की फसलें अधिकतर राकड भूमियों में होती है, जहां पर अधिकतर खेत तालाब खोदे गये जिससे जल संरक्षण / वर्षा जल संचयन से जल स्तर बढने से जल श्रोतो की बृद्धि से सिंचन क्षेत्र में बृद्धि होने से उत्पादकता कमशाः 33.76 एवं 80.89 प्रतिशत कीं बुद्धि इई।
- मक्का—मक्का की फसल में जल संरक्षण / वर्षा जल संचयन से जल स्तर बढने से जल श्रोतों से भरपूर जल मिलने से सिंचन क्षेत्र में बृद्धि होने से उत्पादकता में 24.70 प्रतिशत की बुद्धि इई।
- 4. मूंग, उर्द- मूंग, उर्द की फसलें अधिकतर राकड भूमियों में कृषकों द्वारा उगायी जाती है, जहां पर अधिकतर खेत तालाब खोदे गये जिससे जल संरक्षण / वर्षा जल संचयन से जल स्तर बढने से जल श्रोतो की बृद्धि से सिंचन क्षेत्र में बृद्धि होने से उत्पादकता कमशः 3.46 एवं 24.95 प्रतिशत कीं बृद्धि इई।
- 5. अरहर-अरहर की फसलें अधिकतर राकड भूमियों में कृषकों द्वारा उगायी जाती है, जहां पर अधिकतर खेत तालाब खोदे गये जिससे जल संरक्षण / वर्षा जल संचयन से जल स्तर बढने से जल श्रोतो की बृद्धि से सिंचन क्षेत्र में बृद्धि होने से फसलें बहुत ही अच्छी थी, किन्तु फूल आने के बाद वर्षा होने एवं फली छेदक कीट का प्रकोप अधिक होने के कारण उत्पादकता में बृद्धि नही हो सर्की।

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जिला		अधिकारी
	बादा	

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11	मूँगफली	403		112941	181493	179073	207823	15.90	15.53	18.40
10	ਹਿੰਕ	11085	854	660	656	1063	801	16.28	12.45	12.14
9	सोयाबीन	and the second se	11546	13705	4556	3048	5879	4.11	2.64	4.2
8	अरहर	22	30	28	17	27	14	7.73	9.00	5.0
-		17753	17753	17067	26774	26774	24549	15.08	15.08	14.3
7	चर्द	3374	4870	4941	2001	2615	3315	5.93	5.37	6.7
6	भूंग	2777	2251	3887	1083	1166	2083	3.90	5.18	5.3
5	अन्य	21	21	21	13	16	15	6.19	7.62	7.1
4	मक्का	9	2	2	20	4	5	22.22	20.67	25.0
3	बाजरा	3251	3586	3268	6092	3633	5989	18.74	10.13	18.3
2	ज्यार	23715	22519	22404	38262	31138	41439	16.13	13.83	18.50
1	चावल	51760	51864	46958	102019	109589	123734	19.71	21.13	26.3

OFFICIAL DATA BY DISTRICT AGRICULTURE OFFICER

FEW SUCCESS STORIES

VILLAGE GHARODA, TEHSIL ATTARA



- Water table increased by 2.5m.
- Dhaan plantation increased from 150 bheegha to 1300 beegha.
- Gehun plantation increased from 400-500 beegha to 1400 beegha.
- Mass reverse-migration due to better agricultural prospects; boosts local economy.
- Sowing of multiple crops a year now possible.
- Vegetable & fruits farming now possible due to increased water level.

GOVT. SCHOOLS OF BANDA



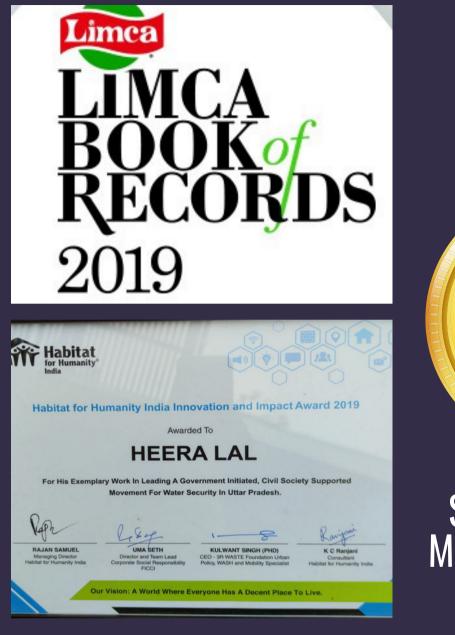
- 1536 rain-water harvesting structures built in all government schools.
- Idea to build responsible citizens of tomorrow.
- Approaching students had multiplier effect as the message reached the entire family and the whole neighborhood.

VILLAGE MAHUE, TEHSIL BANDA



- No drying up of ground water and ponds.
- Drinking water crisis reduced manifold.
- Approx. 20ft water level has increased in reported areas.
- Increase in agricultural activities and corresponding produce.
- Black deers had deserted the block due to lack of drinking water. They have now started
- visiting again due to abundance of water.
- Overall lifestyle has improved and mindset has shifted towards more scientific management of water.

AWARDS & RECOGNITION





22 CRORE ADDITIONAL FUND



SANCTIONED BY MINOR IRRIGATION DEPT.



Presented to: **Dr. Heera Lal. IAS** AL PRAHAR जल संरक्षण के प्रति समर्पित जल प्रहरी सम्मान 2019 Shri Heera Lal 18th December 2019, Constitution Club Annexe, Rafi Marg, New Delhi Ameya Sathaye Anil Singh

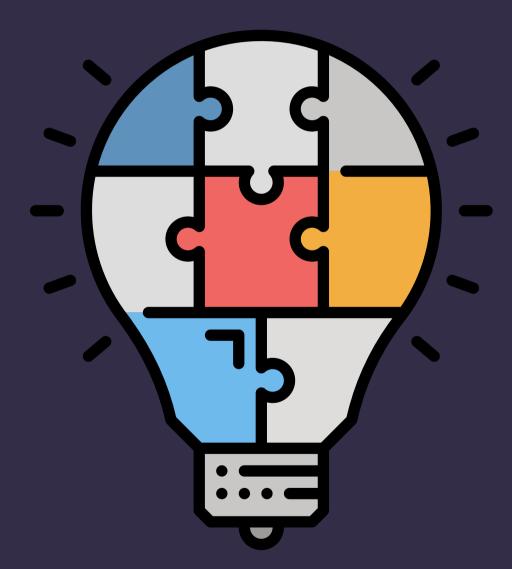
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PHYSICALLY AUDITED & ENCOURAGED BY:

Sh. U P Singh - Sec. Jal Shakti Ministry, Gol
Sh. Mahendra Modi (Consultant to GoUP Urban Development) Known as 'Jal Guru'
Sh. L Venkateshwarlu - Then CEO, U.P
Sh. S R Bhoosreddy - Addl. Ch. Sec. GoUP
SKOCH (Leading think-tank on
socio-economic issues & inclusive growth)

INNOVATIONS



MESSAGING

Reconnecting with natural water bodies - a fresh approach.

PROJECT DESIGN

The project was designed in a community-collaboration format.

LOW-OR-NO-COST MODEL

Implementation encouraged 'Shram-Daan' and resource pooling.

WATER BUDGETING

First time in U.P., concept of Water Budgeting was introduced.

ACCOUNTABILITY

PEOPLE ENGAGEMENT

Mass participation through innovative people engagement.

- Our approach was to make poeple responsible & accountable for reducing water crisis.

KEYS TO SUCCESS

MINDSET Bridging the people-administration gap.

RESOURCES Strategic pooling of resources in a channelised manner.

BASIC KNOWLEDGE Revisiting childhood life experiences to explore optimum solutions.

APPROACH Don't limit your challenges. challenge your limits.

MULTIPLE ROLES Officially I was the DM. Unofficially, I played multiple roles.

HIERARCHY DIVIDE Valuing ideas & hard work. Not designations.

THE HUMAN TOUCH This was not an administrative campaign. It was a people's movement.

DFFERENTIATORS: We developed both - Software (Water Governance) & Hardware (Water Management) of water bodies.

WATER GOVERNANCE

- **CREATING A GLO-CAL MODEL**





<mark>जल ही जीवन</mark> मेरा एक छोटा सा प्रयास

धन्यवद

हीरा लाल निवर्तमान जिलाधिकारी, बांदा

