



HOW TO MAXIMIZE PRODUCTION & PRODUCTIVITY

AS ON MARCH 2017

BALODA BAZAAR

AGRICULTURE

Agriculture Dept.

Present Status of Agriculture in the District

- ❖ **Rain fed Farming**
- ❖ **Lack of collection of Runoff water**
- ❖ **Lack of Seed of pulses & Oilseed**
- ❖ **Indiscreet use of fertilizer & pesticide**
- ❖ **Lack of marketing facility of agriculture product**
- ❖ **Lack of other enterprises along with agriculture**
- ❖ **Lack of Agriculture mechanization**
- ❖ **Lack of irrigation facility**

Action plan for doubling the farmers Income

- 1. Development of Irrigation facilities**
- 2. Minimize the cost of cultivation**
- 3. Maximize the Production & Productivity**
- 4. Integration of different farming system**
- 5. Proper Storage, processing & marketing system**

Development of Irrigation facilities

Irrigated Area Under Different Source of Irrigation

Unit (in hec.)

Sr.No.	Total Cropped Area of the Distt.	Cropped Area		Source of Irrigation						
				Canal (1)	Tank (236)	Well (4632)	Tube well (9892)	River /farm pond / etc. (2261)	Total	Irrigation %
1	359390	Rabi	73630	1420	566	1746	12212	2347	18291	24.84
2		Kharif	236520	84026	12208	3111	14033	2717	116095	49.08

Pradhan Mantri Krishi Sichai Yojna Year 2016-17

S. No.	Component	Name of work	Physical Achievement		
			Achievement 2016-17	Increase in area (ha.)	Total Number of Benefited farmer
1	Her Khet Ko Pani	Solar pump	578	322.000	578
		Electric pump	98	73.768	98
		Diesel pump	1004	482.992	1004
		Earthen dam	27	41.000	80
		Canal lining	3	11500.000	10170
		Construction of anicut	1	50.000	500
		Stop dam	1	50.000	140
		Check dam	12	26.000	45
		Micro irrigation tank	1	40.000	70
Total			1725	12585.760	12685
2	Per drop mor crop	Drip	53	74.104	53
		Sprinkler	946	740.677	946
Total			999	814.781	999
3	Watershed	Check dam	60	521.431	1090
		Form pond	5	18.000	25
		Sluice gate	13	10.000	25
Total			78	549.431	1140
4	MGNREGA	Form pond	1261	721.000	1261
		Well	3	14.000	20
		Check Dam	3	10.000	21
		Deepening of pond	143	200.000	2000
Total			1267	945.000	1302
Gross Total			4069	14894.972	18126

Pradhan Mantri Krishi Sichai Yojna Action Plan for 2020-21

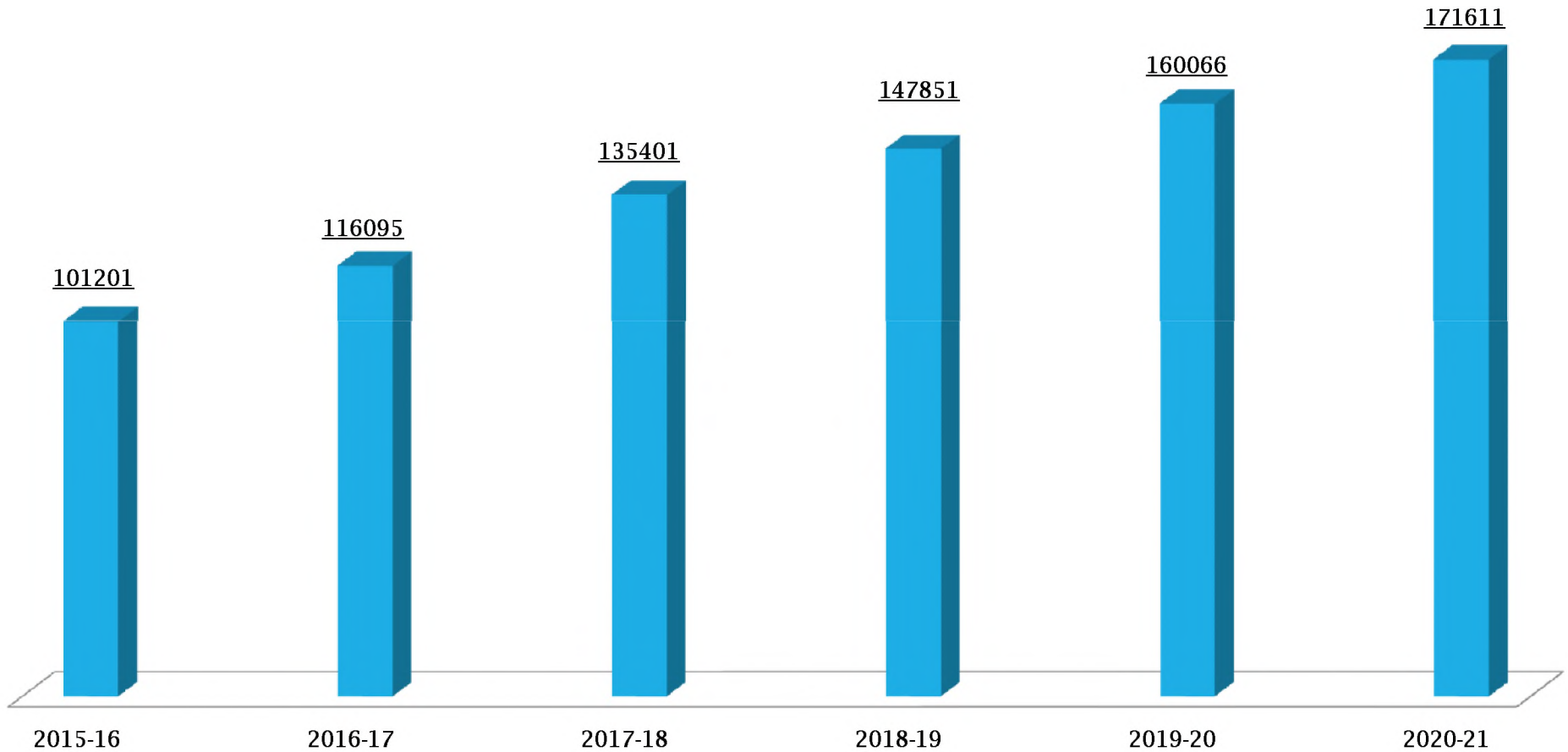
S.No.	Component	Name of work	Year 2017-18		Year 2018-19		Year 2019-20		Year 2020-21		Grant Total	
			Proposed Number	Irrigation capacity (ha.)	Proposed Number	Irrigation capacity (ha.)	Proposed Number	Irrigation capacity (ha.)	Proposed Number	Irrigation capacity (ha.)	Proposed Number	Irrigation capacity (ha.)
1	Her Khet Ko Pani	Solar pump	400	372	450	450	500	470	550	510	1900	1802
		Electric pump	100	100	100	100	100	100	100	100	400	400
		Diesel pump	500	500	500	500	500	500	500	500	2000	2000
		Check dam	64	640	20	200	44	440	61	574	189	1854
		Earthen dam	37	74	18	36	18	36	34	68	107	214
		Canal lining	2	7500	3	4808	3	4570	2	1500	10	18378
		Construction for micro irrigation drip	5	10	3	6	2	4	4	8	14	28
		Construction of anicut	1	500	1	500	1	500	1	500	4	2000
		Anicut cum causeway	1	500	1	500	1	500	1	500	4	2000
		Stop dam	1	650	1	650	1	650	3	1950	6	3900
		Stop dam cum causeway	2	1376	1	650	1	650	3	1950	7	4626
		Mimor irrigation tank	3	150	3	150	3	150	3	150	12	600
		Construction of dam	1	1050	0	0	0	0	0	0	1	1050
		Lift Irrigation project	1	150	0	0	0	0	0	0	1	150
Total			1118	13572	1101	8550	1174	8570	1262	8310	4655	39002
2	Per drop mor crop	Drip	80	240	100	300	130	380	150	415	460	1335
		Sprinkler	90	194	320	800	335	840	250	625	995	2459
Total			170	434	420	1100	465	1220	400	1040	1455	3794
3	Watershed	Check dam	143	1517	58	522	57	513	90	577	348	3129
		Form pond	151	699	26	52	26	52	50	100	253	903
		Sluice gate	17	134	13	26	13	26	16	32	59	218
Total			311	2350	97	600	96	591	156	709	660	4250
4	MGNREGA	Farm pond	2000	2000	1250	1250	1000	1000	1000	1000	5250	5250
		Well	50	50	50	50	50	50	36	36	186	186
		Check dam	100	500	100	500	76	384	50	250	326	1634
		Deepening of pond	200	400	200	400	200	400	100	200	700	1400
Total			2350	2950	1600	2200	1326	1834	1186	1486	6462	8470
6 Gross Total			3949	19306	3218	12450	3061	12215	3004	11545	13232	55516

Proposed Strategy Under Pradhan mantri Krishi Sinchai Yojana (PMKSY)

Years	Total Irrigated Area	Source Wise Irrigation (In hectares)						Increase in %	Cumulative Area Under Irrigation in %
		Irrigation Projects Canal / Anicut Etc.	Solar Pump	Drip	Sprinklar	Tubewell	Other Local sources		
2015-16	101201	69132	950	680	1481	14033	14925		42.78
Increase During 2016-17	14894	11500	322	74	740	555	1703	6.30	49.08
Cumulative 2016-17	116095	80632	1272	754	2221	14588	16628		
Increase During 2017-18	19306	12250	372	240	194	200	6050	8.17	57.25
Cumulative 2017-18	135401	93232	1294	994	2415	14788	22678		
Increase During 2018-19	12450	7500	450	300	800	200	3200	5.26	62.51
Cumulative 2018-19	147851	100732	1744	1294	3215	14988	25878		
Increase During 2019-20	12215	7500	475	380	840	220	2800	5.17	67.68
Cumulative 2019-20	160066	108232	2219	1674	4055	15208	28678		
Increase During 2020-21	11545	7200	510	415	625	345	2450	4.88	72.56
Cumulative 2020-21	171611	115432	2729	2089	4680	15553	31128		

Pradhan Mantri Krishi Sinchai Yojana (PMKSY)

■ total Irrigated cumulative area in Hactare during the YEAR



How to minimize cost of cultivation

- ❖ **Sowing of seed by the use of seed drill instead of broad casting (*Chhidkawa*) method.**
- ❖ **Through the use of seed drill a farmer can save up to 25 to 40 kg. seed per hac.**
- ❖ **Use of fertilizer according to the recommendation of soil health card.**
- ❖ **Using soil health card a farmer can save 10% fertilizer and also increase production up to 5%.**
- ❖ **Integrated nutrient management.**
- ❖ **Minimum or Zero tillage.**
- ❖ **Use of efficient system to irrigation.**
- ❖ **Irrigate according to crop critical stage**
- ❖ **Compulsory seed Treatment.**
- ❖ **Use of Bio-fertilizer.**

Strategy adopting for minimizing the cost of production

Name of component	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	Projected year up to 2022	Remark
Broadcasting Rice (ha.)	180200	-6000	-6000	-6000	-6000	-6000	150200	In 1 ha. Area seed save upto 25-40kg./ha. Hence 180 Ton seed saved every year
Line Sowing (ha.)	1700	2000	2000	2000	2000	2000	9700	Yield increase upto 15 %
SRI Method (ha.)	7200	3000	3000	3000	3000	3000	19200	Yield increase upto 20 %
Transplanting of Rice (ha.)	29000	3000	3000	3000	3000	3000	41000	Yield increase upto 15-18 %
Sprinkler (ha.)	740	50	50	50	50	50	2740	Irrigation efficiency upto 40-50%
Drip (ha.)	74	20	20	20	20	20	154	Irrigation efficiency upto 80-100%
Seed Replacement rate (%)	54.39	10	10	10	10	5	94.39	Yield increase upto 5-10 %
Cropping intensity (%)	133	3	3	3	3	3	145	Double Crop area increase up to 3%per year
Total pulse (ha.)	38100	2000	2000	2000	2000	2000	46100	-
Total oilseed (ha.)	7800	1000	1000	1000	1000	1000	11800	-
Total food grain production (MT)	620550	639167	658341	678092	698434	719388	740969	-

Agricultural Mechanization

No.	Items	Unit	Position of current year 2016-17	Targeted year 2022	Yearwise work plan					Saving per ha.		
					2017-18	2018-19	2019-20	2020-21	2021-22	Rs.	Labour	Time (hr.)
1	Tractor	No.	10	158	20	30	40	38	30	2500	5	15
2	Power Tiller	No.	11	85	10	15	20	15	25	1500	5	15
3	Self Propelled Reaper	No.	10	140	20	20	30	40	30	1500	13	12
4	Paddy Transplanter	No.	1	62	6	6	12	18	20	1500	13	12
5	Multicrop Thresher	No.	83	125	20	20	30	20	35	1500	13	12
6	Rotavator	No.	45	132	20	20	30	42	20	2500	5	15
7	Cultivator	No.	27	235	40	40	60	40	55	2500	5	15
8	M.B. Plough	No.	12	102	20	20	30	20	12	2500	5	15
9	Leveler	No.	16	105	20	20	10	20	35	1500	5	15
10	Cage wheel		5	82	10	10	22	30	10	1500	5	15
11	Seed cum fertilizer Drill	No.	1	61	6	8	12	12	23	2000	10	15
12	Sprayer	No.	1450	673	120	135	130	138	150	-	-	-
13	Power Sprayer	No.	70	396	90	68	78	85	75	-	-	-
14	Food Sprayer	No.	20	578	110	190	80	98	100	-	-	-
Total			1761	2934	512	602	584	616	620	21000	84	156

Soil Health Card Scheme

Sr. No.	Session	No. of Soil Sample Targeted	No. of Soil Sample Collected	%	No. of Soil Sample Tested	%	No. of Soil Health Card Printed/ Distributed	%
1	2015-16	18300	20500	112.02	5189	28.36	21067	22.93
2	2016-17	24730	27461	111.04	42772	172.96	342536	234.56
Total		43030	47961	111.46	47961	111.46	363603	152.83

- ❖ **First rank in case of number of *Soil Health Card printed & distribution in the State***
- ❖ **To provide the Soil health card according to Recommendation of Soil Health Card decrease 10% fertilizer use with Increase 5% productivity.**

Year	2017-18	2018-19	2019-20	2020-21	2021-22
Number of Soil sample collection & testing plan	26000	24500	25800	26000	24500

Pradhan Mantri Fasal Bima Yojana (PMFBY)

Sr. No.	Session	No. of Farmer Insured			Area Insured (Hec.)		
		Loanee	Non Loanee	Total	Loanee	Non Loanee	Total
1	2	3	4	5	6	7	8
1	Kharif 2016	105592	2773	108365	129828.25	2975.25	132803.50
2	Rabi 2016-17	879	648	1527	1377.55	445.43	1822.98
Total		106471	3421	109892	131205.80	3420.68	134626.48

Year	2017-18	2018-19	2019-20	2020-21	2021-22
Number of farmers for crop insurance planning	110000	125000	140000	160000	165000

Storage Facility & Processing Unit

Name of Scheme	Name of Structure	No. of Structure (2016-17)	proposed strategy					Total
			2017-18	2018-19	2019-20	2020-21	2021-22	
NFSM	Godown	40	25	25	25	25	25	125
NMSA	Godown	7	5	5	5	5	5	25
NHM	Cold Storage	0	10	15	20	25	30	100
NHM	Pack House	12	370	62	87	112	130	761
Veterinary	Bulk Milk Cooler	-	1	1	-	-	-	2
Total		59	411	108	137	167	190	1013

How to maximize production & Productivity

- **Use of high yielding varieties**
- **Recommended seed replacement rate**
- **Use of recommended micronutrient**
- **Improved method of crop cultivation like – line sowing, SRI**
- **Integrated nutrient management**
- **Use of farm bund for Pigeon pea, Til & Green Manuring**
- **Increase in cropping Intensity**
- **Integrated pest management**

Integration of Animal Husbandry

No.	Items	Position of Current Year 2016-17	Income generate per year per Unit (Lakh)	Targeted Years 2022	Year wise Work Plan					Remark	
					2017-18	2018-19	2019-20	2020-21	2021-22		
01	Coverage of Artificial Insemination	52%		100%	56%	62%	72%	85%	100%	A.I. Gap Filled by Supply of Bulls through Natural Services	
02	Total No. of Artificial Insemination	28000	0.15	56000	33600	39200	44800	50400	56000		
03	Distribution of Bull	12	0.15	108	15	18	21	24	30		
04	Development of Dairy Enterprises	Commercial Dairy Unit (Animal No. 6 to 15)	19	1.80	114	38	57	76	95	114	Total 1710 Milch Animal Inducted during 5 year
		Small Dairy Unit Animal No. (2 To 5)	244	0.60	488	293	341	390	439	488	Total 976 Milch Animal Inducted during 5 year

Focus on Milk Production

No.	Items	Position of Current Year 2016-17	Targeted Years 2022	Year wise Work Plan					Remark
				2017-18	2018-19	2019-20	2020-21	2021-22	
01	Formation of Milk Corporective Society	14	69	24	39	49	59	69	
02	Total Society Member	500	3747	1700	2500	2900	3500	3747	4500 Ltr. Per day Milk Sold through Society Rest of Milk 29720 Ltr. Sold through other Agency Via Local Market.
03	Total Milk Production in Ltr. / day	34220	68440	41064	47908	54752	61596	68440	
04	Total Gross Income Per day	1026600	2053200	1231920	1437240	1642560	1847880	2053200	
05	Total Expenditur Per day	410640	821280	492768	574896	657024	739152	821280	
06	Total Net Income Per day	615960	1231920	739152	862344	985536	1108728	1231920	
07	Per Member Income/ year	60000	120000	72000	84000	96000	108000	120000	
08	Bulk Milk Cooler (Capacity 1000 Ltr.)	1	6	2	3	4	5	6	

Integration of Animal Husbandry

No	Items	Position of Current Year 2016-17	Targeted Years 2022	Year wise Work Plan					Remark
				2017-18	2018-19	2019-20	2020-21	2021-22	
01	Backyard Poultry Unit (28 days Colored 45 Chicks)	360	720	430	500	575	650	720	-
02	Profit from Unit (lacs.)	56.5	134.59	70.046	84.47	100.59	117.61	134.59	
03	Income Per Unit	15694	18694	16294	16894	17494	18094	18694	

Development of Commercial/Horticultural Crops

No.	Items	Unit	Position of current year 2016-17	No. of Beneficiaries	Income generation/ in lacks/ha.	Targeted year 2022	Year wise work plan				
							2017-18	2018-19	2019-20	2020-21	2021-22
1	Development of new fruit garden	Ha.	415	618	0.70-0.90	850	70	85	90	80	110
2	Cultivation of vegetables	Ha.	2653	3175	0.60-0.70	5200	425	450	500	530	602
3	Cultivation of spices crops	Ha.	648	935	0.60-0.80	1310	120	135	140	155	112
4	Cultivation of flowers	Ha.	80	270	0.70-0.90	395	50	55	60	70	80
5	Processing Unit	No.	0	-	0.30-0.40	15	3	3	3	3	3
6	Pack House	No.	12	12	0.15	500	88	100	100	100	100
7	Green / Shednet house	Lakhs sq. mtr.	40000	18	1.20	360000	50000	60000	70000	80000	100000
8	Mulching	Ha.	1000	600	0.20-0.40	7500	500	1000	1500	2000	2500
9	Plantation of mixed fruit plant under MGNREGA	No.	0	-	-	29	8033	0	0	0	0

❖ In the District at present 8975 farmers are producing horticultural crops, it will be increases 15500 farmers by 2022

Integration of Pisciculture

No.	Items	Position of the Current years 2016-17			Targated year 2022			Fish Production (MT)	Income generation per farmer/year (in Rs.)
		Number of ponds	Water area (ha.)	Number of Beneficiary	Number of ponds	W.A.(ha.)	Number of Beneficiary		
1	Village ponds Allotment for 10year lease	83	160	510	1150	3240	6500	13000	160000
2	Spawn rearing in seasonal ponds	17	9	17	200	100	250	62.50	55000

Year wise action plan

Items	2017-18			2018-19			2019-20			2020-21			2021-22		
	No. of ponds	W.A. (ha.)	No. of Beneficiary	No. of ponds	W.A. (ha.)	No. of Beneficiary	No. of ponds	W.A. (ha.)	No. of Beneficiary	No. of ponds	W.A. (ha.)	No. of Beneficiary	No. of ponds	W.A. (ha.)	No. of Beneficiary
Village ponds Allotment for 10year lease	458	455	900	200	600	1200	250	650	1300	260	750	1500	290	790	1600
Spawn rearing in seasonal ponds	30	15	30	40	20	40	50	25	50	60	30	60	70	35	70

e-NAM Marketing System

Name of Mandi	Genes/ Commodities Name	Price Before e- NAM (per Qt.)	e-NAM Price (Per Qt.)	Income Generate (per Qt.)	Registered Farmers	Year wise plan for Registration farmers				
						2017-18	2018-19	2019-20	2020-21	2021-22
Krishi Upaj Mandi Bhatapara	Pigeon pea	3500	4514	1014	597	560	580	590	560	570
	Soya been	2610	2655	45	598	590	600	610	620	630
	Paddy-HMT	1722	1946	224	1418	1200	1250	1300	1350	1400
	Paddy-Vishnubhog	2505	2845	340	103	90	95	100	105	110
	Lentil	3556	4228	672	487	510	620	720	830	940
	Musterd	3650	3702	52	111	170	190	200	251	270
	Lethirus	2376	2503	127	631	650	690	710	740	800

IRRIGATION

2016-17 529 10370 . में आंतरिक सिंचाई सुविधा प्रदान की गई

2014-15 12180 . में आंतरिक सिंचाई सुविधा निर्मित

20 40,448 . आंतरिक , 47

प्रस्तावित 25 20,605 . में आंतरिक , 06 कार्यों हेतु प्रशासकीय स्वीकृति प्राप्त

BALODA BAZAAR



THANK YOU

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