



# “Yield Enhancing Shift”

*Cultivation of summer vegetables in Dumka District in Jharkhand*

Groundwater has emerged as the primary democratic water source and poverty reduction tool in India's rural areas. Rainfall is the major source of ground water recharge in India. The small scale farmers have limited prior exposure to groundwater management practices. This constraint has trapped agriculture in the community at a subsistence level.

Helping farmers to increase their yields through development of water resources, ASA provides a channel to enhance their livelihood with focus on development of minor irrigation.

15 Dug wells and 3 LIS were created this year in 36 villages in block Jama, district Dumka, Jharkhand. Vegetable cultivation was undertaken by the 8 villages, namely Kamudumaria, Piyarsala, Bajradih, Bhurkunda, Karella, Tarbandha, Sirsa, Phuljhuri, in the summer 2017.

Crop wise Yield (March-May 2017)					
Sr. No	Name	Area in decimal	Production in Quintals		
			Rate/Qtls	Amount	
1	Lady finger	11	2	1600	3200
2	Bitter guard	9	1.5	2300	3450
3	Bottle guard	10	1.8	1400	2520
4	Brinjal	14	3.02	1600	4832

367 farmers have grown vegetable crops on an average area of about 20 decimal per plot per farmer. Major crops cultivated were lady's finger, bitter gourd, bottle gourd and brinjal. Average income per household amounts to Rs.14000/during March-May 2017.



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Properly designed and constructed well pays off by ensuring availability of water for irrigation round the year.

**Tarbandha village, Jama**  
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**Irrigation is a basic determinant of agriculture. Construction of LIS has resulted into increased productivity which has increased consumption of vegetables at the household levels enhancing household food security and wellbeing.**

***Dhorli village, Jama***

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**Wholesale market is a vital link in vegetable supply chain. Retailers are dependent on wholesale market. Due to large scale production, local vendors could be attracted to purchase the vegetable produce directly from the farmers field.**

***Bajradih Village, Jama***

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Surplus production of summer vegetable crop is being taken for selling at nearby town market.

*Piyarsala village, Jama.*

With the installation of Lift irrigation systems, the gross cropped area has increased 3 folds. Farmers have also started growing summer crops like tomato, bottle guard, brinjal etc. making use of this water which is available to them till May-June now.

*Kamudumaria Villag, Jama*

