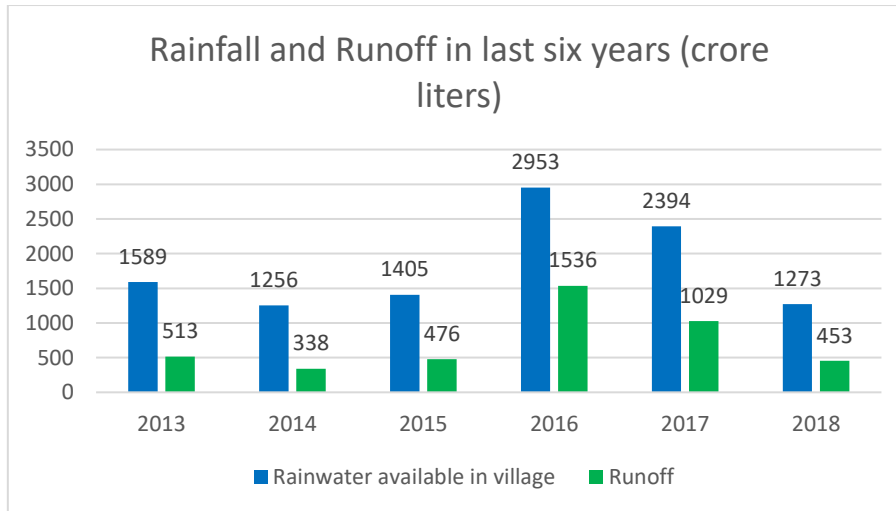
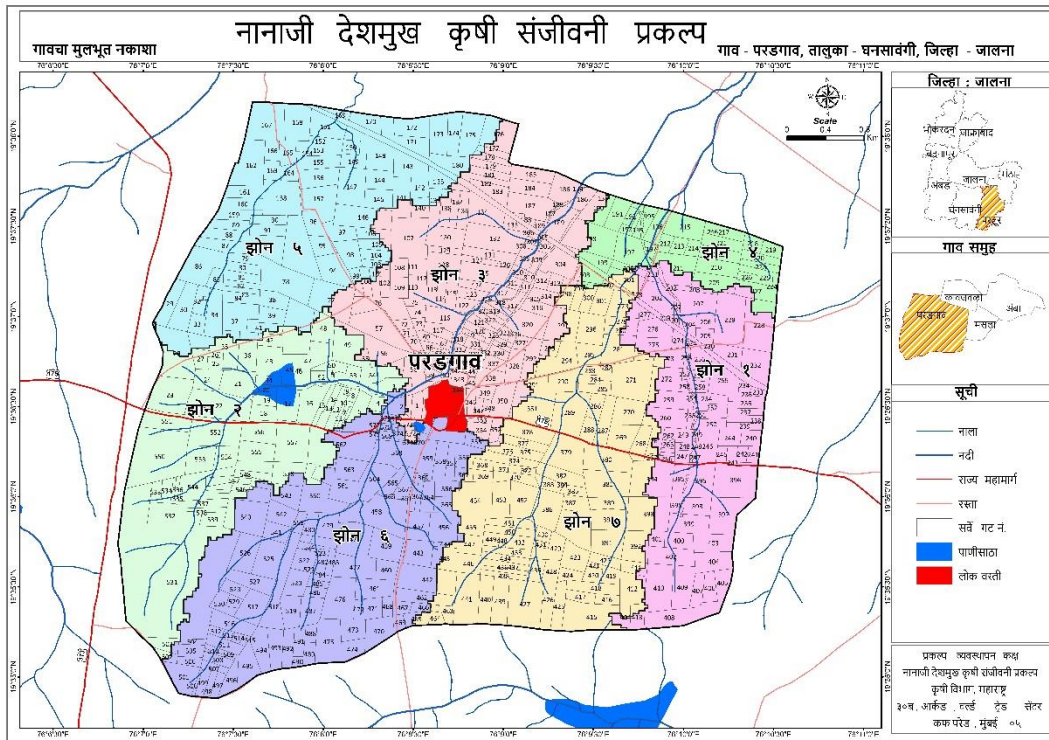


Village Water Balance – Year 2018

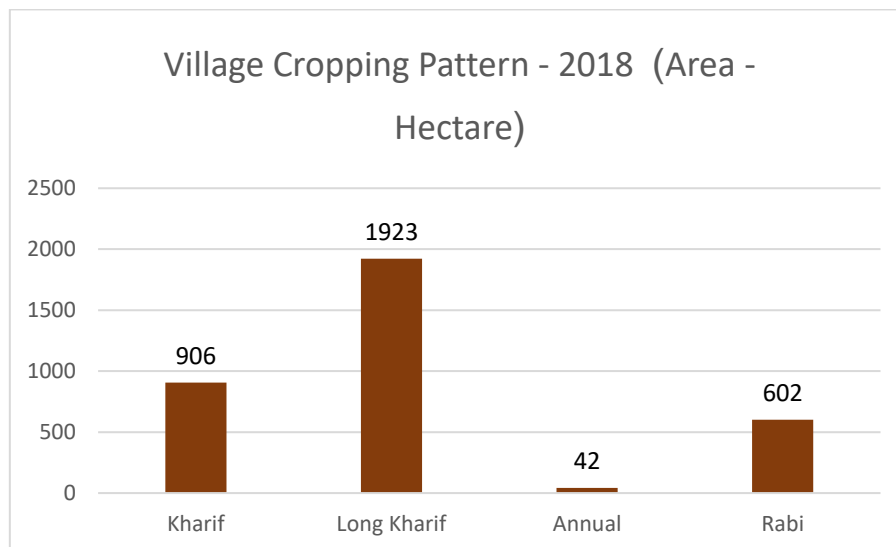
Village: Paradgaon, Cluster Code: 514_gp-35_03, Taluka: Ghansavangi, District: Jalna

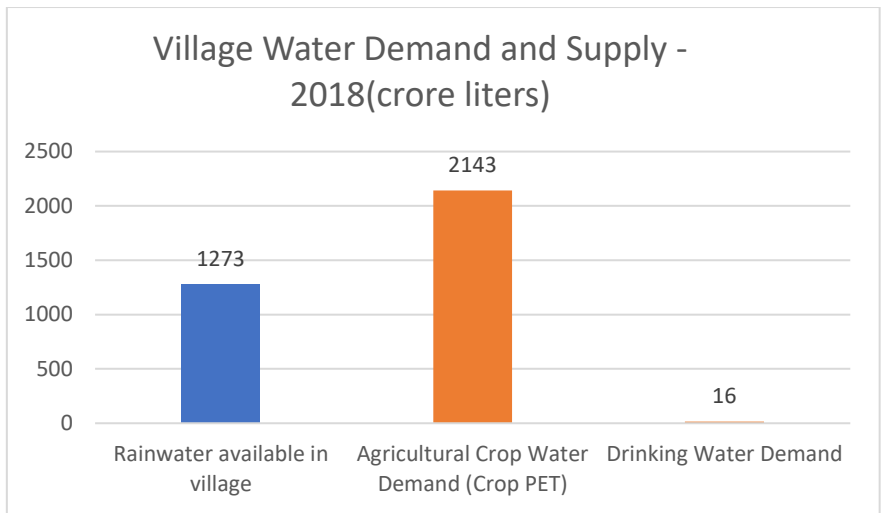


Agricultural Area -
2855 hectare

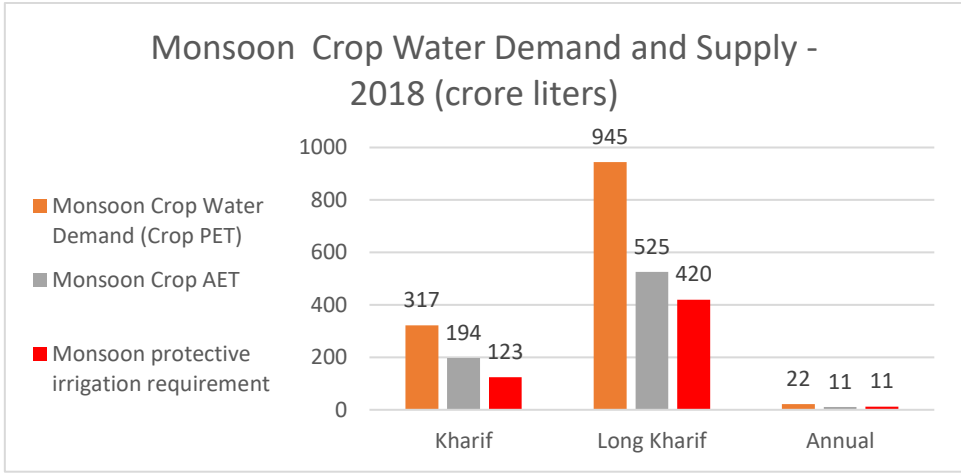
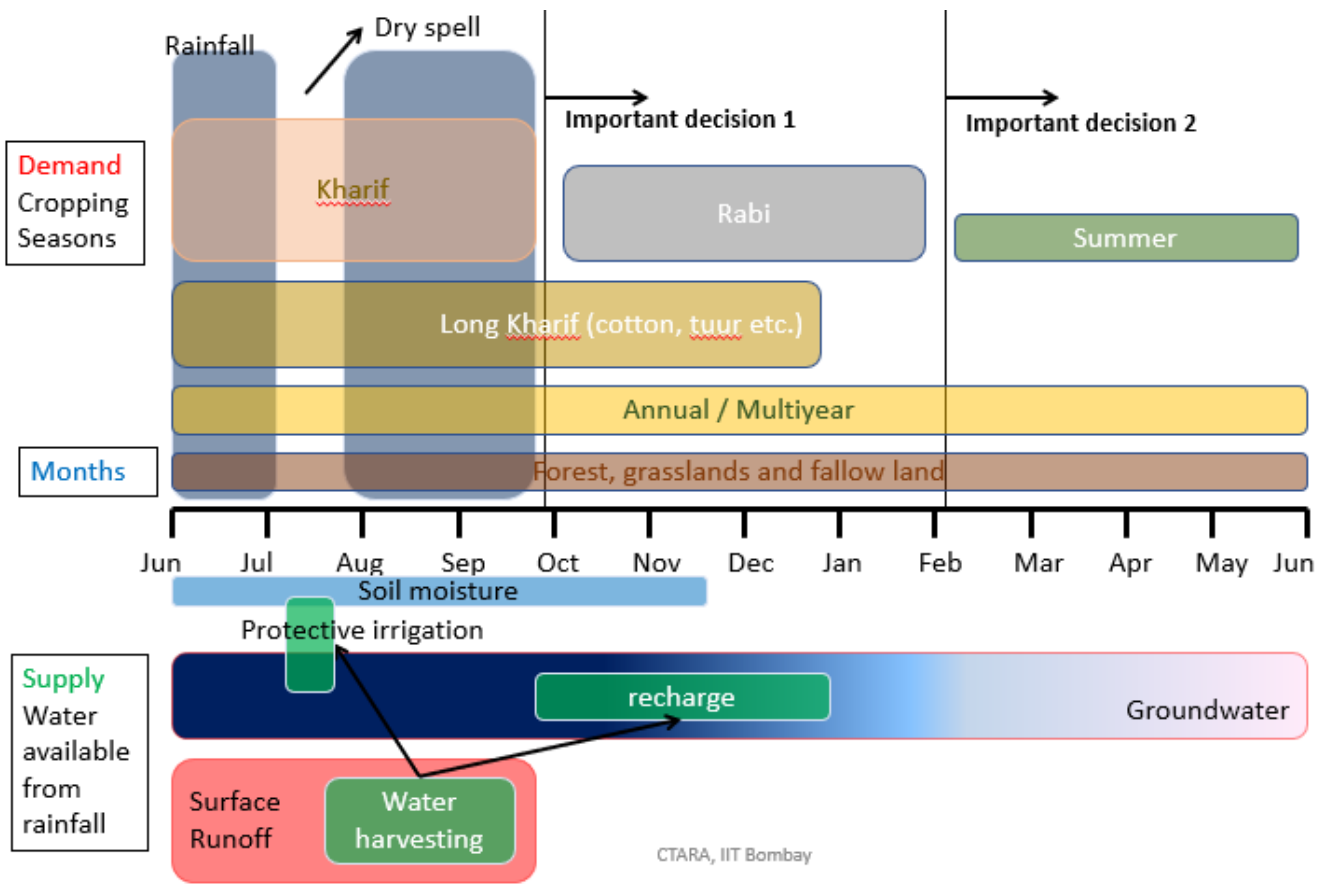
Non-Agricultural
Area - 72 hectare

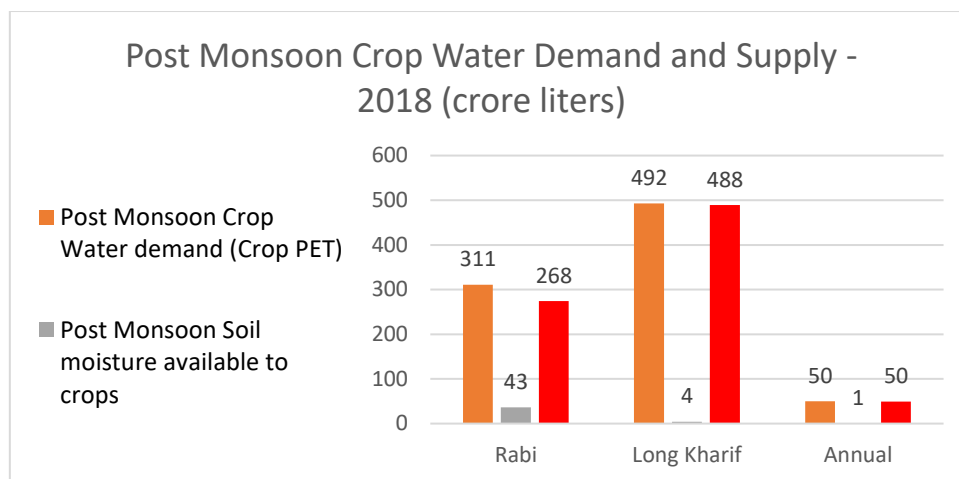
Total Area – 2927
hectare





Village Level Agricultural Water Budget





Water Balance: Summary (Year - 2018)

Water Budget			
1	Total Village Area (Hectare)	2927	
2	Rainwater available in Village (Crore litres)	1273 (435 mm)	
3	Monsoon Crop AET (Crore litres)	740	
4	Ground Water Recharge (Crore litres)	12	
5	Soil Moisture (Crore litres)	65	
6	Runoff from village area (Crore litres)	453	
7	Runoff available for arresting (Crore litres)	228	
8	Currently arrested runoff (Crore litres)	85	
9	Runoff remaining to be arrested (Crore litres)	143	
10	Total runoff to be arrested after proposed interventions (Crore litres)	94	
	Crop water Demand and Supply	Monsoon	Post Monsoon
11	Crop Water Demand (Crop PET) (Crore litres)	1282	853
12	Crop AET (Crore litres)	729	47
13	Crop Water Deficit or Irrigation Requirement (Crore litres)	553	806
14	Arrested Runoff (Crore litres)	42.5	42.5
15	Available Groundwater (Crore litres)	4	8

१६	Water balance in Current State	-506.5	-755.5
१७	Total Deficit (Crore litres)	-1262	
Water Balance after Proposed State			
१८	Total deficit with current cropping pattern and proposed interventions (Crore litres)	-1253	

1. There is scope to plan for new interventions to arrest remaining runoff of 143 crore litres.
2. Since water deficit will exist even after arresting remaining runoff, there is need for cropping pattern management at village level.
3. Scope to increase the area under micro-irrigation and that under short duration, less water intensive crops.