


Farm Based Opportunities and Activities in a nut-shell:

SI No	Production Base Opportunities	Input Access / Support	Employment & Livelihood Security	Other Micro Employment & Livelihood Security	ME	Remarks / Principles
	Major Crops Based	Components	Cascading Opportunities	Subsidiary Opportunities	Scopes	
	Upscale Existing Major Crops / Introduction of improved varieties: <ul style="list-style-type: none"> Traditional Upland and Medium land Paddy (Original Gene-line) HYV Paddy Highbred Paddy Pulses (limited) Vegetables (open and backyard) Pyra (Field Pea) Newer areas (Phase I & II Diversification): <ul style="list-style-type: none"> Aromatic Paddy Intensive Fodder Intensive Cropping Seed Production (paddy / pulse / vegetables) Upscale forgotten crops (in tiny scale & shift later) <ul style="list-style-type: none"> Crops that can be stored for better price (Colcassia / Pumpkin / Root-Tuber crops including Onion, Potato / Sweet Potato / Yams etc.) & industrial use (green chilly / tomato / peas etc.) Wheat / Maize Pulses (green-gram / Chick pea) Sunflower / Mustard 	Farm Input Supply: <i>Material:</i> <ul style="list-style-type: none"> Input centre (seed / fertilizers / pesticides) <i>Service:</i> <ul style="list-style-type: none"> Custom Hiring of farm machineries / Common corpus m/cs & tools Information / knowhow: <i>Crop Science:</i> <ul style="list-style-type: none"> Knowhow / tech. transfer Solution to all problems on cropping (RRTTS/KBK +) <i>Market / Information:</i> <ul style="list-style-type: none"> Information access to Market on contacts & prices / market-led production / forward markets etc. Access to technologies & management practice for higher productivity / cost reduction / risk preparedness-resilience-alleviation Credit / Capital / Insurance: <ul style="list-style-type: none"> Access to credit / capital / insurance Capacity Building: <ul style="list-style-type: none"> Crop Selection (variety selection based on local situation / market) Capacity Building (from planning to cropping to postharvest to storage to risk management to market to problem way out at any point) Crop Demonstration Record keeping and accounts (mostly in barefoot) Operation of farm machineries with repair & maintenance. 	Business Based Cascading Business Opportunities <ul style="list-style-type: none"> Supply of critical & major input like seedlings (paddy for the planter on time). Consumable mechanical tools / spares supplies. Availability of Planter, Seed Drill, and Harvester basically to be operated by village youth individual to meet the demand of farm mechanization and avert labour & climate risks. Additional availability of material inputs above common corpus with little margin. Sales of seeds (when all types of seeds are available in the village) Trading of farm produces (petty / aggregated stocks) as an individual or group. <i>Service Opportunities</i> <ul style="list-style-type: none"> Operation of farm machineries Market Agent (by individual business based youth of the area) Insurance Services (at cluster head only) Transporting of farm goods Repair & maintenance of farm machineries (and others nonfarm small tech) 	Other Opportunities <ul style="list-style-type: none"> Use and supply of Vermin Compost. Vegetable saplings (tech. based) Use and supply of bio-fertilizer Supply of packing materials (e.g. gunny bags) / other petty consumables etc.) Raised bed farming / High humid (seedlings / medicinal root crops / root cutting planting materials. Preparing bio-pesticides. 	Enterprising Scopes: <i>Farm Based:</i> <ul style="list-style-type: none"> Niche organic / original gene-line / nutrition rich produces. Protected (Tunnel) Farming. Intensive Farming Precision Farming. Low cost tissue culture unit Community Nurseries. Small scale bio-fertilizer unit. <i>Trade Based:</i> <ul style="list-style-type: none"> Aggregation for scale with sorting / grading / packaging facility. Short duration Storage facility. <i>Industry Based:</i> <ul style="list-style-type: none"> Rice Huller Small Dal Mill Small Poultry Feed Unit. Small Maize Mill. Sattu / IndiaMix Pattern (ICDS & others) Waxing of vegetable. Seasoning and open aerated or buried storage of onions / garlic / turmeric / ginger / colocassia / pumpkin etc. 	Group Farming: <ul style="list-style-type: none"> By JLGs By SHGs By UGs By Share Croppers as individual or in group on contract. Bio availability of nutrition security recommended crops & seedlings (source ADVRC) at field and every Back Yard. Inclusive Cropping (Climate Resilient Nutrition rich crops for consumption, sales of surplus and conservation of seed. Crops (selected) that have scope to have scope for feeds for Ruminants, BY poultry, Pisci-culture with package & practice of keeping up soil health) Central Nursery / Knowledge Partners Collaborated Institutions (through Rural Knowledge Center) Strategy to shift towards conservation and organic farming with the same unit cost of production and productivity at par.
	Animal Based					
	Large Ruminants; Indigenous Conservation & Multipurpose utility: <ul style="list-style-type: none"> Dual Purpose draft & Milk Indigenous Breeds ; Hariana, Tharparkar, Sahiwal, Sindhi etc Can have Higher Milk Yields from crop based feed. Indigenous Breeds; A2 allele of Beta Casein Milk (Exotic have mostly A1 type allele possibly associated with some metabolic disorders; diabetes, heart diseases etc.) Least affected by climate 	Input Access / Support <i>Breed Improvement:</i> <ul style="list-style-type: none"> Access to Improved Indigenous Breeds for better drafting & milk through Mother Unit. <i>Material:</i> <ul style="list-style-type: none"> Access to Intensive Fodder / open pasture / dry feed <i>Service:</i> <ul style="list-style-type: none"> Vaccination, Healthcare, Breeding, and Sales & Purchase of Ruminants through Mother Unit. Information / Knowhow: <i>Market / Information:</i> <ul style="list-style-type: none"> Market Facilitator (Mother Unit – Gokulgram only from A-Z) Credit / Capita / Insurance: <ul style="list-style-type: none"> Access to credit / capital / insurance 	Business Based Cascading Effects: Opportunities <ul style="list-style-type: none"> An opportunity for every HH to acquire by improving breed Cottage Industry (SHGs) based on Dung & Urine (20 + Products) Indigenous breed Milk & Milk Products (Desi / niche) <ul style="list-style-type: none"> Milk & Milk Products (Desi) Service Opportunities <ul style="list-style-type: none"> Market Agent (by individual business based youth of the area) Insurance Services (at cluster head only) Repair of the water lifting devices.& Biogas plants (BY) 	Other Opportunities <ul style="list-style-type: none"> Individual making of Vermin Compost. Various other composting e.g., Indore / NADEP. Biogas plants Organic Farming 	Cottage industry  <ul style="list-style-type: none"> Cottage industries to produce 20 + odd items from urine and dung (through SHGs) Individual enterprise on milk & milk products. 	Mother unit- Gokulgram / Gausala for single window services

	<p>change as they are more hardy and robust.(exotic are now became vulnerable)</p> <ul style="list-style-type: none"> ✓ Dung & Urine attracts Cottage Industry. ✓ 	<p>Capacity Building:</p> <ul style="list-style-type: none"> ✓ Knowledge on selection of crops to grow for availing residues / by-products for feed & supplementary feed ✓ On time healthcare / vaccination / deworming / castration ✓ Multiple Products from Excreta ✓ Milk & Milk Products (being Indigenous) ✓ Feed Management ✓ Crop Animal Ratio (based on NR & ceiling on wellbeing) 	<ul style="list-style-type: none"> ✓ Dealing with vaccination goods ✓ 			
	<p>Small Ruminants:</p> <p>Breed conservation and Improvement:</p> <ul style="list-style-type: none"> ✓ Black Bengal ✓ Shirohi ✓ Less or no Sheep 	<p>Input Access / Support</p> <p><i>Breed Improvement:</i></p> <ul style="list-style-type: none"> ✓ Access to Improved Breeds / Bucks ✓ Edict to stop Inbreeding <p><i>Material:</i></p> <ul style="list-style-type: none"> ✓ Access to Intensive Fodder / open pasture / dry crop feed <p><i>Service:</i></p> <ul style="list-style-type: none"> ✓ Vaccination, Healthcare, etc and Sales & Purchase of Small Ruminants through Mother unit <p>Information / knowhow:</p> <p><i>Market / Information:</i></p> <ul style="list-style-type: none"> ✓ Market Facilitator (Market / Price & Demand / Facilitation) <p>Credit / Capita / Insurance:</p> <ul style="list-style-type: none"> ✓ Access to credit / capital / insurance <p>Capacity Building:</p> <ul style="list-style-type: none"> ✓ Buck Management to prevent inbreeding. and weight gain ✓ Knowledge on selection of crops to grow for availing residues / by-products for feed & supplementary feed ✓ On time healthcare / vaccination / deworming / castration ✓ Feed Management for weight gaining ✓ Crop Animal Ratio (based on NR & ceiling on wellbeing) 	<p>Business Based Cascading Effects: Opportunities</p> <ul style="list-style-type: none"> ✓ An opportunity for every HH to acquire by improving breed ✓ Cottage Industry (SHGs) based on bio pesticides products. ✓ High grade compost making <p>Service Opportunities</p> <ul style="list-style-type: none"> ✓ Market Agent (by individual business based youth of the area) to sell by weight and on the basis of skin quality ✓ Insurance Services (at cluster head only) ✓ Better Trading on aggregated stocks through an individual / agent or group. 	<p>Other Opportunities</p> <ul style="list-style-type: none"> ✓ Individual making & use of Vermin Compost. ✓ Various other composting e.g., Indore / NADEP (making, use and sale) ✓ Biogas plants ✓ Organic Farming. ✓ Sale of Composts. 	<p>Individual can venture on information on stocks & market and avail higher market prices.</p>	<p>Mother unit; Climate Resilient Small ruminant Production / Breed Improvement / Varietal Selection. And small ruminant fattening technology based on variety, healthcare, and crop management (for supplementary crops), pasture development & management.(single window services)</p> <p>Information at the unit on stocks enables groups / individuals for higher price. Provide information on varietal demand on dif. market places.</p>
	<p>Backyard Poultry;</p> <ul style="list-style-type: none"> ✓ Backyard colour fowlers based on farmer's preference / practice ✓ Scientific recommendation based on climate, crops husbandry and biodiversity. 	<p>Input Access / Support</p> <p><i>Material:</i></p> <ul style="list-style-type: none"> ✓ Access to Intensive and or open orphan crop / worms / dry feed <p><i>Service:</i></p> <ul style="list-style-type: none"> ✓ Vaccination, Healthcare, and & Dry Feed <p>Information / knowhow:</p> <p><i>Market / Information:</i></p> <ul style="list-style-type: none"> ✓ Market Facilitator (Market / Price & Demand / Facilitation) <p>Credit / Capita / Insurance:</p> <ul style="list-style-type: none"> ✓ Access to credit / capital / insurance <p>Capacity Building:</p> <ul style="list-style-type: none"> ✓ Knowledge on crops to grow for availing residues / by-products for feed & supplementary feed ✓ Vaccination, Healthcare, and time of sales (FCR base timing). ✓ Feed Management for weight gaining 	<p>Business Based Cascading Effects: Opportunities</p> <ul style="list-style-type: none"> ✓ An opportunity for every HH to acquire limited dual purpose breed. ✓ Dealing with vaccination goods ✓ Better Trading on aggregated stocks as an individual / agent or group. ✓ Growing hatched Chicks of 45 days & sale locally <p>Service Opportunities</p> <ul style="list-style-type: none"> ✓ Market Agent (by individual business based youth of the area) to sell by weight ✓ Insurance Services (at cluster head only) 	<p>Other Opportunities</p> <ul style="list-style-type: none"> ✓ Individual making of Vermin & other Compost. ✓ Drops often used as fish feed ✓ Biogas plants support of drops (high protein base) ✓ Organic Farming 	<ul style="list-style-type: none"> ✓ Backyard Poultry Promotion by every HH to head towards a Poultry Estate. ✓ Nursing day old to 45 days by farmers. ✓ Individual culling unit to sell processed chickens at different markets / nearby towns. ✓ Individual can venture on information on stocks & market and avail higher market prices. 	<p>Mother unit: (Central Hatchery):</p> <p>(Hatching / nursing day old to 45 days / Health care / Input supplies A-Z, Marketing of all Produces, Insurance, Credit Access</p>

		<ul style="list-style-type: none"> ✓ Crop Animal Ratio (based on NR & farmers need) ✓ Improved Indigenous Breeds for better weight gain 				
	Water Body Base					
	Pisci-culture <ul style="list-style-type: none"> ✓ Traditional three tier ✓ Short Duration (4-5 months; Kharif to mid Rabi) 	Input Access / Support <i>Material:</i> <ul style="list-style-type: none"> ✓ Access to Fingerlings / Yearlings / Stuntlings / bio-fertilizer and local feed <i>Service:</i> <ul style="list-style-type: none"> ✓ Health of Water Body Information / knowhow: <i>Market / Information:</i> <ul style="list-style-type: none"> ✓ Market Facilitator (Market / Price & Demand / Facilitation) Credit / Capita / Insurance: <ul style="list-style-type: none"> ✓ Access to credit / capital / insurance Capacity Building: <ul style="list-style-type: none"> ✓ Variety Selection (based on water health, depth, water balance and local culture) ✓ Vaccination & Healthcare ✓ Plankton & Feed Management for weight gaining ✓ Fish Ratio (based on water balance & use) ✓ Improved Indigenous Breeds in Check Dam category 	Business Based Cascading <i>Business Opportunities</i> <ul style="list-style-type: none"> ✓ Can use any type of water body for fish farming (especially the short duration fish in lesser water balance bodies or water drying before summer and despite acidic base being) ✓ Trading of produces (in small stocks at nearby town) as an individual or group. ✓ Scope of selling live for better price ✓ Can collectively sale on festive days. <i>Service Opportunities</i> <ul style="list-style-type: none"> ✓ Market Agent (by individual business based youth of the area) ✓ Insurance Services (at cluster head only) 	Other Opportunities <ul style="list-style-type: none"> ✓ Use and supply of bio-fertilizer ✓ Supply of packing materials. 	Individual can venture on information on stocks & market and avail higher market prices.	Mother unit: (Central Hatchery): Supply of all types Fingerlings, Yearlings, Stuntlings / Management & Technologies / Monitoring on water and crop health in its market catchment.
	Innovative					
	Intensive Cropping based on Existing Backyard Dug Wells	Access to Fund (PMKSY / CSR / NABARD) / Investment / Credit Capital: Phase-I <i>On Pilot Basis:</i> <i>Material:</i> <ul style="list-style-type: none"> ✓ Access to Fund for Renovation / Repair on the BY Dug Wells that take up all seasons cropping. ✓ Provision for Piped / Sprinkler / Drip Irrigation for appropriate crop (priority to organic) ✓ Provision for small tunnel farming for Fodder / Nursery – Tissue Culture Plants. ✓ Provision Methane tank (based on biomass) for Bio-Energy that propel a pump and supplement cooking. ✓ Provision of vermin culture methane slurry. .. <i>Service:</i> <ul style="list-style-type: none"> ✓ Complete mentoring and access of experts to follow-up on every day to day basis. 	Business Based Cascading <i>Business Opportunities</i> Major Opportunities: <ul style="list-style-type: none"> ✓ Round the cropping. ✓ More the crop more the scale ✓ Reduction of cost of cropping & saving water by using methane gas driven bio-energy for piped flow/micro sprinkler / drip/humid irrigation. ✓ Intensive precision farming. ✓ Intensive fodder for use and sale. ✓ Organic Farming (shifting from chemical to organic). ✓ Sales of vegetable seedlings ✓ Trading of farm produces (petty / aggregated stocks) as an individual or group. <i>Service Opportunities</i> <ul style="list-style-type: none"> ✓ Market Agent (by individual business based youth of the area) ✓ Insurance Services (at cluster head only) 	Other Opportunities <ul style="list-style-type: none"> ✓ Use and supply of Vermin Compost. ✓ Vegetable saplings (tech. based) ✓ Use and supply of bio-fertilizer ✓ Supply of packing materials / other petty consumables etc.). ✓ Raised bed farming / High humid (seedlings / medicinal root crops / root cutting planting materials. ✓ Preparing bio-pesticides. 	<ul style="list-style-type: none"> ✓ Scope of one vegetable waxing unit centrally to enhance shelf life with minimal cost. ✓ Sorting, grading, aggregating and packing based on market pattern of logistics management. ✓ Individual can venture on information on stocks & market and avail higher market prices. 	Mother unit (Central Nursery): <ul style="list-style-type: none"> ✓ All portfolio vegetables to be developed on the basis of local varieties contained with higher nutritive value, climate resilience and newer emerging markets

	<ul style="list-style-type: none"> ✓ Proper functioning with Repair & Maintenance of each and every component. <p>Information / knowhow: <i>Crop Science:</i></p> <ul style="list-style-type: none"> ✓ Knowledge on growing appropriate crops / crop selection based on intensive infrastructures. <p><i>Market / Information:</i></p> <ul style="list-style-type: none"> ✓ Market Facilitator (Market / Price & Demand / Facilitation) <p>Capacity Building:</p> <ul style="list-style-type: none"> ✓ Crop Selection (variety selection) ✓ Repair and Management (functioning) and of all Infrastructures 	<ul style="list-style-type: none"> ✓ Transporting of farm goods 			
<p>Intensive Cropping based on Existing Open Dug Wells:</p> <ul style="list-style-type: none"> ✓ Intensive Open Farming based on permanent Lift Points ✓ Low cost Tunnel Farming ✓ Precision Farming in open field 	<p>Access to Fund (PMKSY / CSR / NABARD) / Investment / Credit Capital: Phase-I <i>On Pilot Basis:</i></p> <p><i>Material:</i></p> <ul style="list-style-type: none"> ✓ Access to Fund for Renovation / Repair on the Open Dug Wells that take up all seasons cropping. ✓ Provision for Irrigation through Piped / Field Channels. ✓ Provision for small tunnel farming for Fodder / Raised Bed Veg. Cropping. ✓ Provision for Bullock Driven Pumps for irrigation @ 15,000 lits / hr. ✓ Pumping to higher heads & store at Low cost Bamboo Water Tanks for gravity piped flow irrigation. <p><i>Service:</i></p> <ul style="list-style-type: none"> ✓ Complete mentoring and access of experts to follow-up on every day to day basis. ✓ Proper functioning with Repair & Maintenance of each and every component. <p>Information / knowhow: <i>Crop Science:</i></p> <ul style="list-style-type: none"> ✓ Knowledge on growing appropriate crops / crop selection based on intensive infrastructures. <p><i>Market / Information:</i></p> <ul style="list-style-type: none"> ✓ Market Facilitator (Market / Price & Demand / Facilitation) <p>Capacity Building:</p> <ul style="list-style-type: none"> ✓ Crop Selection (variety selection) ✓ Repair and Management (functioning) and of all Infrastructures <p>Phase -II</p> <ul style="list-style-type: none"> ✓ Intensive Open Farming based on permanent Lift Points (including agro and fruit forestry) ✓ Low cost Tunnel Farming in up-lands / medium lands 	<p>Business Based Cascading <i>Business Opportunities</i></p> <ul style="list-style-type: none"> ✓ Supply of critical & major input like seedlings (paddy for the planter on time). ✓ Consumable mechanical tools / spares supplies. ✓ Availability of Planter, Seed Drill, and Harvester basically to be operated by village youth individual to meet the demand of farm mechanization and avert labour & climate risks. ✓ Additional availability of material inputs above common corpus with little margin. ✓ Sales of seeds (when all types of seeds are available in the village) ✓ Trading of farm produces (petty / aggregated stocks) as an individual or group. <p><i>Service Opportunities</i></p> <ul style="list-style-type: none"> ✓ Operation of farm machineries ✓ Market Agent (by individual business based youth of the area) ✓ Insurance Services (at cluster head only) ✓ Transporting of farm goods ✓ Repair & maintenance of farm machineries (and others nonfarm small tech) 	<p>Other Opportunities</p> <ul style="list-style-type: none"> ✓ Use and supply of Vermin Compost. ✓ Vegetable saplings (tech. based) ✓ Use and supply of bio-fertilizer ✓ Supply of packing materials (e.g. gunny bags) / other petty consumables etc.) ✓ Raised bed farming / High humid (seedlings / medicinal root crops / root cutting planting materials. ✓ Preparing bio-pesticides. 	<ul style="list-style-type: none"> ✓ Scope of one vegetable waxing unit centrally to enhance shelf life with minimal cost. ✓ Sorting, grading, aggregating and packing based on market pattern of logistics management. ✓ Individual can venture on information on stocks & market and avail higher market prices. 	<p>Mother unit (Central Nursery):</p> <ul style="list-style-type: none"> ✓ All portfolio vegetables to be developed on the basis of local varieties contained with higher nutritive value, climate resilience and newer emerging markets

		✓ Precision Farming in open field with permanent source of water at Medium Lands				

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