Decoding Agrarian Crisis: A Study of Production, Employment and Emerging Challenges in Rural Agriculture

Dr. Shashi Bala



V.V. Giri National Labour Institute



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V. V. Giri National Labour Institute

(Ministry of Labour & Employment, Govt. of India) Sector – 24, Noida Email ID:-balashashi.vvgnli@gov.in



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Preface

'Swavlamban', a Sanskrit word, means "self-sufficient." We found that agriculture is the only means for more than 80% of families to alter their live when working exclusively with vulnerable and underprivileged communities.

The COVID-19 pandemic has caused problems in all sectors of the economy. In the first 45 days of the lockdown, the agricultural sector, which employees 58 percent of the country's workers, took the brunt of the problem.

Bold steps announced for the sector in the third tranche of the Atmanirbhar Bharat Abhiyan, on the other hand, reaffirmed the Government's commitment to strengthening it. The future of Indian agriculture depends upon efficient conservation, sustainable utilization and efficient management of agricultural resources. A comprehensive approach is required for the development of the agricultural sector in the country.

Present research study focuses on the grass-root constraints and opportunities to strengthen the rural economy. In-depth research and awareness on latest technology utilization is must for creating decent jobs for the rural population.

We are hopeful that the present research will be beneficial for all the stakeholders in their endeavor to develop a meaningful strategy for a dynamic and sustainable development of Agriculture.

I congratulate Dr. Shashi Bala (Fellow) and her team for the endeavor in these directions.

Amit Nirmal Director General V.V. Giri National Labour Institute, Noida



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Dr. Shashi Bala Fellow V. V. Giri National Labour Institute





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Executive Summary

In India the majority of workers are engaged in the activities related to agriculture. Today agriculture is going through a crisis called Agrarian Crisis. The crisis of agriculture is persisting in nature and it is reflected in declining production in Agriculture Sector, increased indebtedness of farmers, low profit from farm outputs and much more.

Agriculture is carried out by a section of society which comprises of the rural labours who are unable to bear the burden of this economy on their weak shoulders. They are unable to help themselves or change their occupations and still working hard to contribute their part in development of the nation. It is important to investigate how the agrarian crisis is affecting the farmers, especially the small and marginal farmers from different aspects in order to decode this crisis. As the Indian Agriculture Sector is meanly occupied by the small and marginal farmers whose contribution to the sector is of utmost important and over-whelmingly that can not be underestimeded. The agrarian crisis is not a new phenomenon, and the urgency to decode this crisis is becoming more complex which is attracting the attention of the researchers and policymakers of the country as it can lead to a huge loss. The Government is searching for every possible way to help these farmer and revive the agriculture sector. There is a scope to decode this crisis and revive the most important sector and help the policymakers to address this long persistent problem.

The objective of this study is to examine the present agrarian crisis in India from different dimensions and to understand its underlying causes; so that a strategy can be conceptualized which can support the dynamic growth and sustainable development of agriculture in the country. The study specifically intends to investigate the existing production process, the pattern of employment, productivity and other emerging challenges in agriculture.

A. Field Area

The study was conducted in two districts of Uttar Pradesh, namely, Bareilly and Varanasi. Further, for an in-depth analysis, two sub-districts each in both the regions namely, Bareilly, Faridpur, Pindra and Varanasi were divided in 8 regions, each consisting of a village. Questionnaires were used to elicit information from different aspects of the sample villages.

B. Respondents

From the selected Districts, the responses were elicited from Agricultural labourers, farmers, extension workers, among others.

C. Major Findings

1) 44.58% females and 55.42% males are a part of this study.



- 2) Majority of the respondents are in the age group 41-50 years.
- 3) 58.17% respondents belong to Other Backward Class.
- 4) 58.03% respondents are employed.
- 5) Unemployment is the biggest concern among the respondents. They feel that new schemes of employment should be introduced to rural areas.
- 6) 29.08% respondents are into agriculture work and 15.92% are into non-farming employment.
- 7) 40.35% workers having permanent jobs.
- 8) 60.30% owned land, 3.37% has leased land
- 9) 63.67% respondents have availed benefits from schemes.

D. Suggestions

- 1. Rural Infrastructure should be strengthened.
- 2. The standard of rural education should be improved.
- 3. Investments should be made in Research and Development of agriculture.
- 4. Allied sectors of agriculture should encourage employment opportunities to reduce burden on agriculture.
- 5. Institutes providing training on agriculture and other allied activites should be established and it should also provide placement opportunities.
- 6. Respondents should be made aware of the policies and welfare schemes provided by different stakeholders.

E. Policy Recommendations

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- The accessibility to internet connection in the rural areas of India should be strengthed.
- Local Administration/ Gram Panchayat should play active role in resolving problems of the residents of the village.



Chapter 1: Introduction

1.1 Overview

Agriculture has been the primary employment of people in Indian villages from the ancient period, as it provided them with a source of opportunities for livelihood. Throughout the year, individuals cultivate a variety of crops. Subsistence farming, organic farming, and industrial farming are all examples of farming practices that contribute significantly to Indian agriculture. For large crop yields, India relies heavily on its monsoon cycle. With agricultural reforms currently in the focus, the Government could pursue a huge village-level infrastructure project that includes measures such as improving crop storage and building gramme mandis or haats. Not only would this add value to the agricultural supply chain, but it would also empower rural units and the farmer community, resulting in a faster recovery for the Indian economy following the Covid disaster. In India, agriculture and related sectors contributed only 17% of GDP in 2012, but employed 51 percent of the entire workforce. Agriculture's contribution to GDP has decreased as the Indian economy has diversified. It remains the largest source of employment and a vital part of India's overall socio-economic development.

The Agrarian challenges such as inadequate investment, diminishing fertility of soil, water scarcity, low yield to farmers, exorbitant prices of seeds, inadequate ground water level, declining irrigation, less rainfall etc. have impacted the farmer from which they find quite to difficult to overcome, leading to Agrarian crisis.

1.2 Literature review

According to 2014 statistics, South Asia's almost half workforce is employed in Agriculture Sector and 42% of its landmass is under Agriculture operation. Agriculture, rural development and food security are some of the areas of cooperation of **SAARC**. In its 18th Summit it was agreed that for enhancing productivity to ensure food and nutritional security in the region, investment should be increased, there should be promotion of research and development, facilitation of technical cooperation and application of innovative, appropriate and reliable technologies in the Agricultural Sector. Also, the importance of sustainable Agriculture was emphasized.

ILO has passed various conventions to support the labour and agriculture activities worldwide. It aids to maintain a system of labour inspection in agricultural undertakings [Labour Inspection (Agriculture) Convention, 1969], ensures provisions by employer for the health and safety of workers in Agriculture (Safety and Health in Agriculture Convention, 2001) and India ratified the right of Association and combination of agricultural workers [Right of Association (Agriculture) Convention, 1921]

To improve the agricultural trade by making it fairer and competitive **World Trade Organization** has made an agreement on Agriculture in 1995 which focuses on reforming the Agriculture Sector to address the subsidies and high trade barriers that distort trade. The overall aim of this agreement is to improve the livelihoods



of farmers and to build a fairer trading system that will increase market access around the globe.

The current agrarian crisis of India can be summarized as diminishing soil fertility, sinking water table, rise in cost (all effects of green revolution), poor return to farmers, and unaffordable periodic spikes in key commodities and periodical excess production which are dumped on the roads ruining several farmers and placing a huge burden on the Government (V. Kumarswamy, 2019). All these factors have lead to decline in the development of the Agriculture Sector. Some of the problems in the development of the agriculture are water supply uncertainty, lack of the productivity of the farmers, pre-dominance of tiny farmers, lower level of operations, unfair land ownerships, little commercial farming by the farmers as most of them produce for self-consumption only and not for the selling purpose thus there is vast underemployment (A.N Aggarwal (1981). The crisis of agriculture is responsible for suicides among the farmers. The reasons for suicide among the farmers are low remuneration, indebtedness, crop failure, addictions, behavioral changes, disputes with others, health care problems and death or suicide or illness in family (Mishra, 2008). Agrarian crisis can be tackled by making agriculture a profitable business and attract farmers to pursue the crop production activities. The policy investment in Agriculture and its allied sectors including communication, transport, irrigation, research, rural market, rural infrastructure and farm should be raised, and the integrated development of the rural areas should be the goal. The radical changes in the present economic policies related to agriculture is the solution to the problem (Dhas, 2009).

1.3 Objectives of the Research Study

The specific objectives to study:

- 1. To study the existing production process in Agriculture;
- 2. To study the employment pattern and productivity in Agriculture;
- 3. To study the effect of price and market mechanism; (Terms of Trade)
- 4. To study the risk management framework;
- 5. To study the Government policies and programmes along with the access and their impact.
- 6. To investigate the resource utilization process in Agriculture.

1.4 Methodology

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The first stage involves selection of a particular region within the state of Uttar Pradesh. Western and eastern Uttar Pradesh were selected for this study, as these regions have been experiencing very high level of agricultural growth along with non-agricultural employment. This is a result of access to better irrigation facilities and introduction of new farm technology. Indicators, such as namely Literacy rate, main, marginal and non-workers, irrigated area, electricity accessibility, location of source of drinking water, households availing banking services along with households' either owning or not owning assets were selected for facilitating the selection of study area. The details of the districts identified for detailed research are given as below:



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1. Western Uttar Pradesh -BAREILLY

2.

Eastern Uttar Pradesh-VARANSI

(lowest among indicators) (highest among indicators)

Bareilly Division is an administrative as well as a geographical unit situated in the western segment of Uttar Pradesh. Bareilly division consists of four districts namely Bareilly, Badaun, Pilibhit, and Shahjahanpur. It is known as a centre of production for cane furniture. Bareilly is assumed to have a very productive land (Tarai) which is very suitable for the production of sugarcane, rice, pulses and wheat. The Bareilly division recorded very low figures in terms of the variables selected for the study such as literacy rate, percentage of main workers, and accessibility to electricity, availing of banking services and households owning assets. Whereas it is also found that percentage of non-workers is very high in the districts of Bareilly division.

Varanasi district is situated in the eastern part of Uttar Pradesh. In Varanasi district, agriculture is at subsistence level and the major crops grown are paddy, wheat, jowar, bajra, maize etc. The Varanasi district recorded very high figures in relation to the variables selected for the study such as literacy rate, percentage of main workers, access to electricity and households owning assets. The percentage of marginal workers is found very low in this district.

Further, two sub-districts each in both of the regions, Bareilly and Varanasi were selected using the same indicators as above. In both of the regions, study area selected from each one of the sub-district represents high development among the indicators and the other one represents low development among the indicators. In Bareilly region, the selected sub-districts are Bareilly and Faridpur whereas in Varanasi region Sub District selected are Pindara and Varanasi. After this detail procedure, a village was selected from each Sub-district for the in-depth field level research (on the basis of the highest population for representative samples).

1.5 Sample Size

As per Census 2011, following sample villages have been selected (refer table: 1.1) Tisua and Undla Jagir have been chosen as towns in the Bareilly area, while Dhaurhara and Pindara have been chosen from the Varanasi region.

	Population	
Rural (Village)	Undla Jagir	9,738
	Tisua	7,590
	Dhaurhara	15,736
	Pindara	15,257

Table 1.1: Sample Selections

	-		of neoponder		
	District	Village	FEMALE	MALE	Total
Village	Bareilly	Tisua	434	509	943
, j		Undla Jagir	423	214	637
	Varanasi	Dhaurhara	340	480	820
		Pindara	408	792	1200
	Total		1605	1995	3600

Table 1.2: Details of Respondents



1.6 Data Sources

The study used both the qualitative and quantitative primary and secondary data.

1) Primary Data

The primary data was collected using techniques such as field surveys and interviews (both online and offline) by using standard structured and unstructured questionnaires to elicit necessary information related to the proposed study. The questionnaire was able to capture all aspects of the respondents' socio-economic background, their family constraints, their land and assets, demographic, educational, income details. Also, as the study was conducted during the period of Covid-19 pandemic, information regarding covid-19 was also gathered.

Google forms were used as a tool to collect data in order to follow physical and social distancing. This information was collected through Labour Force Investigators appointed in the field. Bilingual structured questionnaires were inserted in Google forms. Access of the same was provided to the team to gather timely data. Regular meetings were held through Google meet for sharing the information gathered and address the concern.

2) Secondary Data

Besides primary data, the secondary data was collected from the Census 2010, 2011, Agriculture Census 2015-16, books, articles and websites on related issues.

1.7 Data Analysis

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The research team has used a combination of different tools and techniques to evaluate and scrutinize the data collected through the process of Field Investigation. Different questionnaires were used for the process of data collection (Annexure-2). The software used for analysis is SPSS (Statistical Package for Social Sciences) and Microsoft Office (Word and Excel).

1.8 Limitations of the Study

The study was limited to the specific state and districts. Due to time and resource constraint only 3600 samples were taken. As the field work was completed during COVID-19 period, it might have effected the data captured.



Total

2.75

37.47

48.47

11.31

100.00

Pindra

1.22

15.89

13.14

3.08

33.33

0.97

11.33

10.36

0.13

22.79

Chapter 2: Introduction to Districts and Respondents

The present chapter provides details regarding basic profile of respondents which include their gender, number of dependent family members, age, categories, educational qualification, and the types of educational institutes attended by them with their location in the districts.

Gender Profile

Table 2.1 depicts the district-wise gender distribution wherein 44.58% were females (23.80% women were from Bareilly and 20.78% women were from Varanasi) whereas 55.42% were males (20.08% males were from Bareilly and 35.34% males were from Varanasi).

District					Total	
		Bareilly		Varanasi		
		Village		Village		
		Tisua	Tisua Undla Jagir		Pindra	
Gender	FEMALE	12.05	11.75	9.46	11.32	44.58
	MALE	14.14 5.94		13.33	22.01	55.42
Total		26.19	17.69	22.79	33.33	100.00

Table 2.1: District wise Gender distribution

Source: Field Survey

Number of Dependents in family

1-2

3-4

5-6

Above 6

Table 2.2 shows the Number of Dependents in the family and it was found that 2.75% villagers have 1-2 people as a dependents in the house, 37.47% villagers have 3-4 people as a dependents in the house, and 48.47% villagers have 5-6 people as a dependents in the house.

Dis	trict
Bareilly	Varanasi
Village	Village

Undla Jagir Dhaurhara

0.17

7.08

9.58

0.86

17.69

Tisua

0.39

3.17

15.39

7.24

26.19

Table 2.2: Number of Dependents in family

Source: Field Survey

Number of

dependents

Age-wise Classification

Total

Table 2.3 shows the age-wise distribution of respondents of the villages of Bareilly and Varanasi. It is found that 8.76% respondents were from the age bracket of



20-30 years, 29.09% respondents were from the age bracket of 31-40 years, 35.61% respondents were from the age bracket of 41-50 years, 17.36% respondents were from the age bracket of 51-60 years and the least were from above 60 years which is 9.18%.

District					Total	
		Ba	reilly	Varana		
		Village		Villag		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Age	20-30	2.08	1.56	2.01	3.11	8.76
	31-40	7.14	3.19	8.01	10.75	29.09
	41-50	9.42	6.75	8.69	10.75	35.61
	51-60	4.83	3.47	3.31	5.75	17.36
	Above 60	2.72	2.72	0.77	2.97	9.18
To	otal	26.19	17.69	22.79	33.33	100.00

Table 2.3: Age wise distribution of Respondents

Source: Field Survey

Social Category

Table 2.4 shows the social category wise distribution of respondents and it is found that 15.97% were from general category, 58.17% from OBC category, 24.92% from SC category and 0.94% were from ST category.

			Total			
		Ba	reilly	Varanasi		
			Villag	ge		
		Tisua Undla Jagir Dhaurhara Pindra				
Category	GENERAL	4.83	2.78	4.17	4.19	15.97
	OBC	14.67	12.53	12.64	18.33	58.17
	SC	6.47	2.28	5.78	10.39	24.92
	ST	0.22	0.10	0.20	0.42	0.94
Total		26.19	17.69	22.79	33.33	100.00

Table 2.4: Social Category wise distribution of Respondents

Source: Field Survey Other Backward Classes (OBC), Scheduled Castes (SC), Scheduled Tribes (ST)

Educational Qualification

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Table 2.5 Shows the highest educational qualifications of respondents and it was found that 31.18% were uneducated, 28.68% did primary school, 18.59% completed the high school, 13.47% completed the higher secondary schools, 6.72% were graduated or diploma/certificate, and the least were 1.36% villages completed post graduation.



		District				Total
		E	Bareilly	Varana	asi	
			Village	Villag	<u>ge</u>	
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Highest	Primary level	7.03	6.31	5.51	9.83	28.68
Educational	Matric / High	5.08	2.81	5.03	5.67	18.59
Qualification	School					
	Higher	4.03	1.39	4.47	3.58	13.47
	Secondary					
	Graduation/	1.89	0.69	2.28	1.86	6.72
	Diploma/					
	Certificate					
	Post-Graduation	0.5	0.14	0.44	0.28	1.36
	Uneducated	7.66	6.35	5.06	12.11	31.18
7	otal	26.19	17.69	22.79	33.33	100.00

Table 2.5: Highest Educational Qualification of respondents

Source: Field Survey

Educational Institutions

Table 2.6 shows that 0.50% respondents attended deemed university, 65.31% respondents attended Government institute, 1.95% attended private institute, and 1.05% attended both Government and private Institutes.

			Total			
		В	areilly	Varana	asi	
		V	illage	Villag	ge	
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Type of	Deemed	0.14	0.06	0.19	0.11	0.50
Educational	Government	17.58	11.03	16.42	20.28	65.31
Institutes	Private	0.31	0.17	0.89	0.58	1.95
	Government +	0.44	0.08	0.25	0.28	1.05
	Private					
	NA (Uneducated)	7.72	6.35	5.04	12.07	31.18
	Total	26.19	17.69	22.79	33.33	100.00

Table 2.6: Types of Educational Institutions attended by the respondents

Source: Field Survey

Not Applicable (N.A): Uneducated Respondents

Location of Educational Institutions

Table 2.7 shows the location of the educational institutions where the respondents took their education and it is found that 9.49% of the respondents got their primary education from other state, 12.74% from their own village and 6.45% from nearby towns. 7.08% respondents got secondary education from other state, 4.79% respondents from their own village and 6.72% respondents from nearby towns. 4.86% respondents got higher secondary education from other state, 3.8% respondents from their own village and 4.81% respondents from nearby towns. 3.81% respondents got their graduation/diploma/certificate education from other state, 1.31% respondents from their own village and 1.60% respondents from nearby towns.



			Dis	trict		Total
		B	areilly	Varana	asi	
		V	Village	Villag	ge	
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Primary	Other state	1.63	2.10	1.93	3.83	9.49
Education	Own village	4.32	3.11	1.45	3.86	12.74
	Town near village	1.08	1.10	2.13	2.14	6.45
Tot	al	7.03	6.31	5.51	9.83	28.68
Secondary	Other state	1.58	1.64	2.33	1.53	7.08
Education	Own village	1.32	0.61	1.30	1.56	4.79
	Town near village	2.18	0.56	1.40	2.58	6.72
Tot	al	5.08	2.81	5.03	5.67	18.59
Higher	Other state	1.46	0.56	1.56	1.28	4.86
Secondary	Own village	1.36	0.39	1.36	0.69	3.80
Education	Town near village	1.21	0.44	1.55	1.61	4.81
Tot	al	4.03	1.39	4.47	3.58	13.47
Graduation	Other state	0.56	0.44	1.17	1.64	3.81
Diploma	Own village	0.32	0.00	0.77	0.22	1.31
Certificate	Town near village	1.01	0.25	0.34	0.00	1.60
Tot	al	1.89	0.69	2.28	1.86	6.72

Table 2.7: Location of educational Institutions attended by the respondents

Source: Field Survey



Chapter 3: Employment and Agriculture

Employment Status

Table 3.1 shows the employment status of the respondents and found 58.03% villagers were employed and 41.97% villagers were unemployed.

			Dis	strict		Total
		В	areilly	Varanasi		
			Village			
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Employed	YES	14.03	8.28	13.72	22.00	58.03
	NO	12.16	9.41	9.07	11.33	41.97
	Total	26.19	17.69	22.79	33.33	100.00

Table 3.1: Employment Status of Respondents

Source: Field Survey

Activity Status

Table 3.2 depicts the activity status of the respondents. It was found that 7.30% villagers were seeking for employment and are currently unemployed, 26.43% villagers were self employed and 31.61% people are working and employed.

Table 3.2:	Activity Status	s of Respondents

		District				Total
		E	Bareilly	Varana	asi	
		Village		Village		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Activity Status	Neither seeking nor available for work	10.69	9.22	5.81	8.94	34.66
	Seeking or Available for work/ Unemployed	1.47	0.19	3.25	2.39	7.30
	Self Employed	8.00	0.64	5.54	12.25	26.43
	Working / Employed	6.03	7.64	8.19	9.75	31.61
	Total	26.19	17.69	22.79	33.33	100.00

Source: Field Survey

Types of employment

Table 3.3 shows the types of employment status of respondents and it depicts that 29.08% people were working as agriculture labour, 6.27 % were into construction, 15.92% were from non farming sector and 6.76% were from Anganwadi Worker, Asha worker, Beauty Parlour, Business, Clerk, driver etc.



			Dis	strict		Total
		-	Bareilly	Varar	asi	
				llage		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Type of	Agricultural labour	5.28	5.50	10.08	8.22	29.08
Employment	Construction	1.78	1.19	0.72	2.58	6.27
	Non-Farm Employment	5.86	1.03	1.36	7.67	15.92
	NA (Non Employment)	12.25	9.39	8.97	11.36	41.97
	Any Other	1.02	0.58	1.66	3.50	6.76
	Total	26.19	17.69	22.79	33.33	100.00
Any Other	Anganwadi Worker	0.06	0.00	0.00	0.08	0.14
	Asha worker	0.03	0.06	0.03	0.06	0.18
	Beauty Parlour	0.06	0.00	0.00	0.03	0.09
	Business	0.03	0.08	0.03	0.08	0.22
	Clerk	0.06	0.08	0.08	0.22	0.44
	Driver	0.53	0.11	0.36	0.58	1.58
	Embroidery worker	0.00	0.00	0.00	0.03	0.03
	Helper	0.11	0.06	0.25	0.83	1.25
	Labour worker	0.00	0.07	0.02	0.17	0.26
	Professionals	0.03	0.05	0.61	0.55	1.24
	Salesman	0.05	0.00	0.00	0.06	0.11
	Shopkeeper	0.06	0.07	0.28	0.81	1.22
	Total	1.02	0.58	1.66	3.50	6.76

Table 3.3: Types of employment of Respondent

Source: Field Survey

Duration of Employment & Wages earned

Table 3.5 shows the duration and wages earned of employment and it is found that 40.35% were permanent workers, 6.88% were on contract (marginal 0-3 months) workers, and 11.89% were on contract (marginal 3-6 months) workers. 22.44% villagers earned 100-200 INR is wages, 15.37% villagers earned 200-300 INR, and 19.41% villagers earned 300-400 INR and least 1.90% villagers earned 0-100 INR.

Table 3.4: Duration of Employment & Wages earned

S.	Duration		Total			
no		Ba	reilly	Varanasi		
			Vi	illage		
		Tisua	UrlaJagir	Dhaurhara	Pindara	
1	Main worker (Permanent)	11.24	4.14	9.36	15.61	40.35
2	Marginal worker (0-3 months)	0.37	1.67	3.51	1.33	6.88
3	Marginal worker (3-6 months)	2.39	2.52	1.95	5.03	11.89



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S.	Duration		Di	istrict		Total	
no		Ba	reilly	Varan	lasi		
			Village				
		Tisua	UrlaJagir	Dhaurhara	Pindara		
4	NA	12.19	9.36	7.97	11.36	41.97	
	Total	26.19	17.69	22.79	33.33	100.00	
	W	ages earr	ed of Empl	oyment			
1	0-100	0.41	0.00	0.53	0.96	1.90	
2	100-200	6.19	3.89	4.75	7.61	22.44	
3	200-300	3.25	2.67	5.86	3.59	15.37	
4	300-400	4.15	1.77	3.68	9.81	19.41	
	Total	14.00	8.33	14.82	21.97	59.12	

Source: Field Survey

Not Applicable (NA): Unemployed Respondents

Allied Activities

Table 3.5 shows the engagement of villagers in the various type of allied activities of agriculture. It is found that 69.39% villagers were engaged in allied activities in agriculture. The type of activities villagers were engaged in includes blacksmith, craftsman, cultivator, dairy farmer, embroidery worker, fisher person, helper, mechanic, poultry farming, shopkeeper and tailoring.

			Ι	District		Total
		Baı	eilly	Varan		
			V	/illage		
		Tisua		Dhaurhara	Pindra	
			Jagir			
Engaged	Yes	18.64	8.25	18.31	24.19	69.39
in allied	No	7.55	9.44	4.48	9.14	30.61
activity of						
Agriculture						
	Total		17.69	22.79	33.33	100.00
Types	Blacksmith	0.03	0.08	0.06	0.05	0.22
of allied	Craftsman	0.17	0.14	0.42	0.44	1.17
activities of	Cultivator	7.92	5.14	9.94	12.28	35.28
Agriculture	Dairy Farmer	0.47	0.37	1.14	0.75	2.73
-	Embroidery worker	2.58	0.45	0.17	0.36	3.56
	Fisher Person	0.17	0.08	0.33	0.36	0.94
	Helper	0.97	0.17	0.39	0.92	2.45
	Mechanic	0.22	0.15	0.22	0.39	0.98
	Poultry farmer	0.15	0.23	0.19	0.19	0.76
	Shopkeeper	5.47	1.33	5.31	8.23	20.34
	Tailor	0.49	0.11	0.14	0.22	0.96
	Total	18.64	8.25	18.31	24.19	69.39

Table 3.5: Engagement in allied activities of Agriculture

Source: Field Survey



Chapter 4: Land Resources and Production System

The prosperity of agriculture largely depends on natural resources. Land plays principal role in the agriculture process. Poor utilization of land resource can result in low crop yield, low income and extensive degradation of soils. The Agricultural land is used for many different operations. The production system was also a centerpiece of agriculture. Land resource should be used in a sustainable way. The use and management of resource like land for agricultural purpose should be planned (J.L. Tersteeg, 1993)

Table 4.1 shows the types of crops and reason for producing those crops. It is found that cash crops including fruits, vegetables, sugarcane and oil seeds were grown by 33.59% villagers, food grain inclusive wheat, rice and pulses were grown by 40.73% villagers and both type of crops were grown by 25.68% of villagers. Respondents also reported the reason for the cultivation, like the easy availability of seeds at lower price etc.

			Dist	trict		TOTAL
		B	areilly	Varana	asi	
			Vill	lage		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Types of crops	Cash Crops (fruits, vegetables, sugarcane, oilseeds)	13.21	5.63	5.21	9.54	33.59
	Food Grain (wheat, rice, pulses)	10.56	5.14	13.72	11.31	40.73
	BOTH	13.23	2.32	5.32	4.81	25.68
	Total	37.00	13.09	24.25	25.66	100.00
Reason for cultivation	Can be cultivated in a short time period	10.65	5.10	1.52	1.17	18.44
	Easy availability of seeds	14.04	10.06	11.58	14.11	49.79
	Low price	2.47	6.56	5.21	3.19	17.43
	All Reasons	2.47	6.25	3.56	2.06	14.34
	Total	29.63	27.97	21.87	20.53	100.00

Table 4.1: Types of crops produced and reason

Source: Field Survey

Number of Crops cultivated

Table 4.2 shows the number of crops cultivated in a year and it was found that a majority of 40.68% villagers used to grow the crops 2-4 times in a year followed by 17.01% villagers grow crops nearly twice a year, 2.06% villagers cultivated crops upto 5 times a year and the least 0.06% villagers were growing 2-6 times a year.

				District				
		В	Bareilly	Varana	nsi			
			Vil	lage				
		Tisua	Tisua Undla Jagir Dhaurhara Pindra					
Number of crops	0-2	2.00	4.06	7.42	3.53	17.01		
cultivated in a year	2-4	17.19	1.36	6.69	15.44	40.68		
	2-5	1.50	0.03	0.00	0.53	2.06		
	2-6	0.00	0.00	0.00	0.06	0.06		
	4-6	0.53	0.19	0.83	2.31	3.86		
	NA	4.97	12.05	7.85	11.46	36.33		
Total		26.19	17.69	22.79	33.33	100.00		
Source: Field Survey		Not Ap	plicable (NA):	Non-Farmers				

Table 4.2: Number of Crops cultivated in a year

Technology used for cultivation

Table 4.3 reveals the type of technology used for cultivation and it was found that harvester & spring tooth cultivator were used by 11.11% villagers. Further, it was found that 16.75% villagers used sickle along with the aforementioned technologies. Lastly, sickle and spring tooth cultivator accounted for 35.81% villagers, and 36.35% have no land therefore not applicale.

			District				
		I	Bareilly	Varan	asi		
			Vil	lage			
		Tisua	Undla Jagir	Dhaurhara	Pindra		
Technology	Harvester +	4.33	0.50	1.42	4.86	11.11	
for	Spring tooth						
cultivation	cultivator						
	Sickle +	4.03	4.19	2.44	6.08	16.75	
	Harvester +						
	Spring tooth						
	cultivator						
	Sickle + Spring	12.86	0.94	11.08	10.92	35.81	
	tooth cultivator						
	NA	4.97	12.06	7.85	11.47	36.35	
]	Fotal	26.19	17.69	22.78	33.33	100.00	

Table 4.3: Technology used for cultivation

Source: Field Survey

Not Applicable (NA): Non-Farmers

Purchase of seeds

Table 4.4 depicts the purchase of seeds and it was found that villagers are buying from Government, cultivators and growing by self were 18.25% of villagers, 11.06% were through Government and self, 34.36% were done by self and cultivators, and 36.33% have no land therefore not applicable.



			Dist	rict		Total
		В	areilly	Varana	asi	
			Vill	age		
		Tisua				
Purchase	From cultivators +	9.42	0.19	0.67	7.97	18.25
of seeds	Government + Self					
	Government + Self	5.14	0.33	0.86	4.72	11.06
	Self + From	6.67	5.11	13.42	9.17	34.36
	cultivators					
	NA	4.97	12.06	7.83	11.47	36.33
	Total	26.19	17.69	22.78	33.33	100.00

Table 4.4: Purchase of seeds

Source: Field Survey

Not Applicable (NA): Non-Farmers

Annual Income

Table 4.5 shows the annual income from crop production and it was found that 21.25% villagers were earning 50,000 to 1,00,000 INR, 23.45% were earning less than 50,000 INR and 18.98% villagers were earning more than 1,00,000 INR.

			Dis	trict		Total		
]	Bareilly	Varana				
			Vil	lage				
		Tisua	Tisua Undla Jagir Dhaurhara Pindra					
Earn	Less than	4.42	4.14	9.42	5.47	23.45		
from crop	50,000							
production	50,000-1,00,000	8.08	0.56	4.19	8.42	21.25		
annually	More than	8.72	0.94	1.35	7.97	18.98		
	1,00,000							
	NA	4.97	12.05	7.83	11.47	36.32		
	Total	26.19	17.69	22.79	33.33	100.00		

Table 4.5: Annual Income from crop production

Source: Field Survey

Not Applicable (NA): Non-Farmers

Schemes for Transporting, Storing and Pricing the Crops

Table 4.6 shows the schemes for transporting, storing and pricing the crops and it was found that the villagers have taken benefits either self or through brokers of government schemes for pricing of crops; to buy the containers like jute bags, silos, granaries for the purpose of storage of crops, and conveyance like buses, government vehicles, lorries and own vehicle for transportation of crops.



			Dis	strict		Total
		В	Bareilly		asi	
		Village				
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Pricing	Government	4.89	0.47	2.19	4.39	11.94
the crops	Government + Self	2.53	4.39	4.61	2.11	13.64
crops	Only for Self consumption	0.39	0.08	0.08	2.61	3.16
	Self	11.47	0.36	5.25		25.58
	With the help of brokers	1.94	0.33	2.83	4.25	9.35
	NA	4.97	12.06	7.83	11.47	36.33
	Total	26.19	17.69	22.79	33.33	100.00
Storing	Containers/Jute bags	4.67	0.44	10.28	7.58	22.97
the crops	Containers/Jute bags + Silos/Granaries	5.81	1.97	1.19	4.81	13.78
	Silos/Granaries + Cold storage	10.75	3.22	3.47	9.47	26.91
	NA	4.96	12.06	7.85	11.47	36.34
	Total	26.19	17.69	22.79	33.33	100.00
Transpor- ting the	Buses/Government vehicle + Lorries	15.75	1.25	7.53	10.31	34.84
crops	Buses/Government vehicle + Lorries + own vehicle	1.86	0.08	0.39	3.61	5.94
	Lorries + Buses/ Government vehicle	2.36	0.42	1.42	1.39	5.59
	Lorries + own vehicle	1.25	3.89	5.61	6.56	17.31
	NA	4.97	12.05	7.84	11.46	36.32
	Total	26.19	17.69	22.79	33.33	100.00

Tables 4.6: Schemes for Transporting, Storing and Pricing the Crops

Source: Field Survey

Not Applicable (NA): Non-Farmers

Strategies used for Risk Management

Table 4.7 shows the strategies used for risk management and it was found that credit schemes were taken by 17.85% of villagers, credit schemes of Government and insurance of crops were 13.28% villagers, 13% villagers getting the help by relatives, and 19.56% were into crops insurance.



			Dis	trict		Total
		В	areilly	Varana	asi	
			Village			
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Strategy	Credit schemes	5.83	1.50	3.77	6.75	17.85
for risk	(of Government)					
management	Credit schemes	2.72	0.61	5.44	4.50	13.28
	(of Government) +					
	Insurance of crops					
	Helped by relatives	6.56	0.08	0.78	5.58	13.00
	Insurance of crops	6.11	3.44	4.97	5.03	19.56
	NA	4.97	12.06	7.83	11.47	36.33
Total		26.19	17.69	22.79	33.33	100.00
			11 (374) 37	_		

Table 4.7: Strategies used for Risk Management

Source: Field Survey

Not Applicable (NA): Non-Farmers

Ownership and Sizes of Land Holding

Table 4.8 depicts the ownership size of land holding and it was found that 60.30% of the respondent have land, 3.37% villagers have leased land and 36.33% have no land, 36.36% villagers have 0–1-hectare size of land, 17.53% villagers have 1–2-hectare size of land and 6.41% villagers have 2-4-hectare size of land.

District Total Bareilly Varanasi Village Tisua Undla Jagir Dhaurhara Pindra Land Yes 12.83 20.69 21.14 5.64 60.30 Leased Land 0.08 0.01 2.11 1.17 3.37 No 4.97 12.04 7.85 11.47 36.33 Total 26.19 17.69 22.79 33.33 100.00 Size of land 0-1 hectare 8.72 9.39 14.22 36.36 4.03 holding 1-2 hectare 8.89 1.22 2.36 5.06 17.53 2-4 hectare 3.53 0.39 1.08 1.41 6.41 5.64 20.69 60.30 Total 21.14 12.83

Table 4.8: Ownership and Sizes of Land Holding

Source: Field Survey

Utilization of Land and Uses of Non-Cultivation land

Table 4.9 depicts the utilization of land and uses of non-cultivation land and it was found that 40.67% villagers use land for cultivation, 15.89% villagers used for non agriculture purposes, and 7.11% uses for non-cultivation and 36.33% villagers have no land. Non-agriculture purposes include graveyard, cattleyard, for living and for storage purposes.



			Dist	rict		Total
		В	areilly	Varana	asi	
			Villa	age		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Utilization	Cultivation land	7.92	5.61	14.67	12.47	40.67
land	Non-Agricultural uses	12.94	0.03	0.11	2.81	15.89
	Non cultivation (Barren)	0.36	0.00	0.17	6.58	7.11
	NA	4.97	12.05	7.84	11.47	36.33
	Total	26.19	17.69	22.79	33.33	100.00
Non-	For Graveyard	0.00	0.00	0.00	0.42	0.42
Cultivation barren land	For Cattle + For Graveyard + For Living	0.25	0.00	0.00	0.64	0.89
	For Living + For Cattle	0.00	0.00	0.03	4.96	4.99
	For Living + For Storage	0.11	0.00	0.14	0.56	0.81
	Total	0.36	0.00	0.17	6.58	7.11
Source: Field S	urvev	Not Appl	icable (NA): No	on owners of]	land	

Table 4.9: Utilization of Land and Uses of Non-Cultivation Land

Source: Field Survey

Not Applicable (NA): Non owners of land

Awareness regarding type of soil

Table 4.10 shows the awareness regarding the type of soil and it was found that 63.66% respondents have the knowledge regarding soil and 36.34% have no land therefore no information about the soil and its type. The type of soil are alluvial soil, loamy soil, black soil and red soil.

			Dis	trict		Total
		E	Bareilly	Varana	asi	
			Vil	lage		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Awareness	Yes	21.22	5.64	14.94	21.86	63.66
regarding	No	4.97	12.05	7.85	11.47	36.34
Type of Soil	Total	26.19	17.69	22.79	33.33	100.00
Type of soil	Alluvial soil	5.86	0.92	11.61	4.86	23.25
	Loamy laom soil	2.58	0.97	1.89	6.81	12.25
	Black soil	3.33	2.94	0.81	3.36	10.44
	Red soil	9.44	0.81	0.64	6.83	17.72
	NA	4.98	12.05	7.84	11.47	36.34
	Total	26.19	17.69	22.79	33.33	100.00

Table 4.10: Awareness regarding Type of Soil

Source: Field Survey



Sources used for irrigation

Table 4.11 depicts the sources used for irrigation of land and it was found that 63.66% villagers were using various sources like canal and wells (14.64%), canals and tube-wells (21.14%) and just tube wells (27.88%).

			Dist	trict		Total
		E	Bareilly	Varana	asi	
			Village			
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Irrigation	Yes	21.22	5.64	14.94	21.86	63.66
of land	NA	4.97	12.05	7.85	11.47	36.34
	Total	26.19	17.69	22.79	33.33	100.00
Sources	Canal + Wells	7.58	0.06	0.5	6.5	14.64
used for irrigation	Canal + Tube well (Govt./Private)	8.19	2.27	4.15	6.53	21.14
	Tube well (Govt./ Private)	5.45	3.31	10.29	8.83	27.88
	Total	21.22	5.64	14.94	21.86	63.66

Table 4.11: Sources used for irrigation

Source: Field Survey

Not Applicable (NA): Non- Farmers

Pesticide in the crop

Table: 4.12 shows the number of respondents using pesticides in their crops and it was found 31.91% respondents use pesticides, 31.75% respondents do not use pesticides.

Table 4.12 No. of respondents using Pesticide in their crops

			Dis	strict		Total
		Ba	areilly	Varana	asi	
			Vi	llage		
		Tisua	Undla	Dhaurhzara	Pindra	
			Jagir			
Pesticides	Yes	8.94	3.47	11.36	8.14	31.91
Crops	No	12.28	2.17	3.58	13.72	31.75
	NA	4.97	12.05	7.85	11.47	36.34
	Total	26.19	17.69	22.79	33.33	100.00

Source: Field Survey

Not Applicable (NA): Non-Farmers



Chapter 5: Infrastructure and Agriculture

Rural Infrastructure plays a significant role in improving the quality of human life and helps in the acceleration of agricultural development. There is a direct and strong relationship of rural infrastructure with farmer's access to the markets, financial institutions and increasing crop yields and hence promoting agricultural growth. The agricultural infrastructure can transform the traditional systems of agriculture into commercial, modern and dynamic farming systems of India (Amrit Patel, 2010).

Government Policies and their benefits

Table 5.1 shows the number of respondents availing benefit from Government programmes. It has been seen that 63.67% villagers are availing benefits. The type of schmes are Paramparagat Krishi Vikas Yojna (18.89%), Pradhan Mantri Fasal Bima Yojna (11.58%), Pradhan Mantri Krishi Sinchai Yojna (16.23%), Pradhan Mantri Krishi Sinchai Yojna and Krishi Vikas Yojna (12.83%). 30.59% villagers are receiving benefits from these schemes.

			Dis	trict		Total
		E	Bareilly	Varan	asi	
				lage		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Availed	Yes	21.22	5.65	14.94	21.86	63.67
Government policy	No	4.97	12.04	7.85	11.47	36.33
	Total	26.19	17.69	22.79	33.33	100.00
Types of Schemes	Paramparagat Krishi Vikas Yojna (PKVY)	6.39	1.64	7.58	3.28	18.89
	Pradhan Mantri Fasal Bima Yojna (PMFBY)	0.83	2.31	2.61	5.83	11.58
	Pradhan Mantri Krishi Sinchai Yojna (PMKSY)	7.23	0.22	2.67	6.11	16.23
	Pradhan Mantri Krishi Sinchai Yojna (PMKSY) + Paramparagat Krishi Vikas Yojna (PKVY)	5.58	1.06	1.22	4.97	12.83
	PPMY	1.19	0.42	0.86	1.67	4.14
	Total	21.22	5.65	14.94	21.86	63.67
Benefit	Yes	9.67	2.73	9.31	8.88	30.59
	No	11.55	2.92	5.63	12.98	33.08
Source: Field Su	Total	21.22	5.65	14.94	21.86	63.67

Table 5.1: Number of respondents availing Government Policies and their benefits

Source: Field Survey



Accessibility to Lok Adalat, Tehsil Division and its benefits

Table 5.2 shows the accessibility to lok adalat, tehsil division and its benefits. 37.07% respondents have the access to Lok Adalat, 48.83% respondents have the access to tehsils divisions and 29.64% respondents are receiving benefits from Tehsil accessibility for the purpose of help in land disputes, resolving all problems, and supporting in family disputes all cases.

			Dis	trict		Total
			Bareilly	Varana		
		Ţ	Village	Villag	ge	
			Undla Jagir			
Access to	Yes	0.61	1.33	22.11	13.02	37.07
Lok Adalat	No	25.58	16.36	0.68	20.31	62.93
	Total	26.19	17.69	22.79	33.33	100.00
Access to	Yes	0.78	12.5	21.94	13.61	48.83
Tehsils	No	25.41	5.19	0.85	19.72	51.17
Divisions						
	Total	26.19	17.69	22.79	33.33	100.00
Beneficial	Yes	3.25	1.98	21.44	2.97	29.64
	No	32.54	11.06	1.17	11.5	56.27
	Total	35.79	13.04	22.61	14.47	85.91
Benefits	Help in a land dispute	8.56	0.19	1.86	5.69	16.3
	Making Caste and Domicile Certificates & other documents	0.23	0.41	0.68	1.2	2.52
	Resolving all problems	5.23	0.35	0.21	0.83	6.62
	Support in family dispute all cases	1.65	0.03	2.33	0.19	4.2
	Total	15.67	0.98	5.08	7.91	29.64

Table 5.2: Accessibility to Lok Adalat, Tehsil Division and its benefits

Source: Field Survey

Beneficiary of MGNREGA

Table 5.3 depicts the beneficiaries of MGNREGA where 17.61% villagers are getting the benefits from this schemes of Government.

			Total			
	Bareilly		Varanasi			
			Village			
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Beneficiary of	Yes	2.03	4.50	7.14	3.94	17.61
MGNREGA	No	24.16 13.19		15.65	29.39	82.39
Tota	26.19	17.69	22.79	33.33	100.00	

Table 5.3: Beneficiary of MGNREGA

Source: Field Survey



Problems faced by Respondents

Table 5.4 depicts the problems faced by respondents. Innumerable problems have been highlighted in this report which includes like unemployment (30.56%) Damaged Roads and Street Lights (21.42%), Diseases in Crops (2.31%), Handpump not working (2.72%), Lack of public toilets (3.92%), No facility for women (15.81%) and more.

				Total		
		E	Bareilly	Varan	asi	
			Vil	lage		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Problems	Damaged Roads and Street Lights	4.00	0.25	13.17	4.00	21.42
	Diseases in Crops	1.25	0.00	0.00	1.06	2.31
	Flood	0.33	0.00	0.06	0.28	0.67
	Handpump not working	1.14	0.06	0.28	1.25	2.72
	Insufficient Electricity	0.31	0.00	0.06	0.31	0.67
	Lack of public toilets	1.33	0.00	0.25	2.33	3.92
	Malfunctioned Solar Lights	0.00	0.00	0.67	0.00	0.67
	No Digital classes in schools	0.64	2.61	0.47	1.22	4.94
	No facility for women	2.06	8.36	0.50	4.89	15.81
	Poverty	0.25	6.22	0.44	1.00	7.92
	Problems with ration card	0.69	0.00	0.11	0.92	1.72
	Shortage of food	0.17	0.00	0.03	0.14	0.33
	Unavaialability of Educational Institutes	0.14	0.00	0.03	0.17	0.33
	Uncleaniness	0.64	0.00	2.67	0.61	3.92
	Unemployment	12.25	0.19	3.92	14.19	30.56
	Wild Animals destroying crops	1.00	0.00	0.14	0.97	2.11
	Total	26.19	17.69	22.78	33.33	100.00

Table 5.4: Problems faced by Respondents

Source: Field Survey

Suggestions by Respondents

Table 5.5 shows the suggestions given by the villagers. Majority of villagers have said to repair hand pump, tubewell and cleaning of canal (28.33%), following by launch of new schems for employment (20.02%). Various other suggestions like construction of Government schools & Educational Institutions, Provide Digital



classes in Schools, all medicines should be avaialable in Primary Health Centres, construct houses for Poor etc were given.

	District				Total	
		В	areilly	Varan	asi	
			Vil	lage		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Suggestion	Construction of Government schools & Educational Institutions	0.08	2.03	0.07	0.99	3.17
	Provide Digital classes in Schools	0.06	0.00	0.11	0.06	0.23
	24/7 avaialability of Electricity	0.52	1.87	0.42	0.50	3.31
	All medicines should be avaialable in Primary Health Centres	2.06	2.94	0.17	0.92	6.09
	Build Public toilets	1.00	0.36	0.56	0.97	2.89
	Construct houses for poors	0.00	3.72	0.11	0.78	4.61
	Generation of new ration card	0.42	0.53	0.08	3.42	4.45
	Introduction of Schemes for Women Agriculture workers	0.25	2.00	0.33	0.33	2.91
	Launch of new schemes for employment	7.94	0.81	1.94	9.33	20.02
	MGNREGA jobs should be increased	1.36	0.00	0.00	1.11	2.47
	New handpumps should be installed	0.58	2.31	0.17	1.61	4.67
	No suggestion	0.06	0.81	0.11	3.00	3.98
	Provision of Food and Employment	1.89	0.03	3.08	1.44	6.44
	Repair hand pump, Tubewell & cleaning of Canal	8.03	0.19	13.22	6.89	28.33
	Transparency in rural development	1.33	0.06	2.03	1.17	4.59
	Wild Animals harming crops should be controlled	0.61	0.03	0.39	0.81	1.84
	Total	26.19	17.69	22.79	33.33	100.00

Table 5.5: Suggestions by respondents

Source: Field Survey



Acquired training in agriculture and its types

Table 5.6 shows the number of respondents who have acquired training in agriculture and its types. 30.67% villagers acquired training. The types of trainings like post-harvest technology management (9.15%), Seed village program (7.21%), Seed village program & post-harvest technology management (7.37%), and submission on agriculture mechanism (SMAM) (6.94%).

			Dist	trict		Total
			areilly	Varan	asi	
		V	village	Villag		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Acquired	Yes	8.48	7.98	8.01	6.20	30.67
training	No	17.71	9.71	14.78	27.13	69.33
	Total	26.19	17.69	22.79	33.33	100.00
Types of	Post-harvest	2.42	1.67	3.06	2.00	9.15
Training	technology					
	management					
	Seed village	2.20	3.11	0.45	1.45	7.21
	program					
	Seed village	2.78	1.09	1.94	1.56	7.37
	program +					
	Post-harvest					
	technology					
	management					
	Sub-mission	1.08	2.11	2.56	1.19	6.94
	on agriculture					
	mechanism					
	(SMAM)					
	Total	8.48	7.98	8.01	6.20	30.67

Table 5.6: No. of respondents have acquired training in agriculture and its types

Source: Field Survey

Banking and Communication facilities

Table 5.7 shows the banking and communication facilities available in village and it was found that 100% villagers have availed the communication services, and 91.22% villagers have availed banking services. The nature of services like Savings and Current account (89.83%), and Savings and Current account + Fixed deposits (1.39%).



			District			
		Bareilly		Varanasi		
		Village		Village		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Communication	Mobile phone	20.5	13.69	17.19	24.89	76.28
services	Mobile phone + Internet	5.69	4.00	5.58	8.44	23.72
Total		26.19	17.69	22.78	33.33	100.00
Banking	Yes	25.06	13.33	21.97	30.86	91.22
services	No	1.14	4.36	0.81	2.47	8.78
Total		26.19	17.69	22.78	33.33	100.00
Nature of the	Savings and	24.47	13.08	21.5	30.78	89.83
services	Current account					
	Savings and	0.58	0.25	0.47	0.09	1.39
	Current account + Fixed deposits					
Total		25.05	13.33	21.97	30.87	91.22

Table 5.7: Banking and Communication facilities available in village

Source: Field Survey

Credit facilities

Table 5.8 shows the credit facilities available in village where 17.23% villagers have access to credit facilities from the sources like Co-operative credit societies (1.24%), Government/Banks (8.92%), Landlords (0.17%), Money lenders (4.32%) and Relatives/Friends (2.59%). The amount used in these facilities were starting from 50,000 INR to above 1,00,000 INR and 1.66% respondents used it for long term (mere than 5 years), 5.58% respondents for medium term (is month to 5 years) and 10% respondents for shorter term (0-15 months).

District Total Varanasi Bareilly Village Tisua Undla Jagir Dhaurhara Pindra Access Yes 5.38 0.47 6.88 4.50 17.23 credit No 82.77 20.81 17.22 15.91 28.83 facilities Total 26.19 17.69 22.79 33.33 100.00 Sources Co-operative credit 0.08 0.00 0.69 0.47 1.24 of credit societies facilities Government/Banks 8.91 4.92 0.47 1.69 1.83 Landlords 0.14 0.03 0.17 0.00 0.00 Money lenders 0.35 0.00 2.08 1.89 4.32 **Relatives/Friends** 0.03 0.00 2.28 0.28 2.59 0.47 Total 5.38 6.88 4.50 17.23

Table 5.8: Credit facilities available in village



			Dis	trict		Total
		В	areilly	Varana	asi	
			Vil	lage		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Amount	0-50,000	2.85	0.13	3.33	2.19	8.50
(in INR)	50,000-1,00,000	2.31	0.31	2.35	1.53	6.50
	50,000-1,00,001	0.03	0.00	0.03	0.00	0.06
	50,000-1,00,002	0.00	0.00	0.03	0.03	0.06
	Above 1,00,000	0.19	0.03	1.14	0.75	2.11
	Total	5.38	0.47	6.88	4.50	17.23
Time	Long term	0.14	0.11	0.91	0.50	1.66
Period	(more than 5 years)					
	Medium term	0.58	0.08	3.05	1.86	5.57
	(15 months -5 years)					
	Short term	4.66	0.28	2.92	2.14	10.00
	(0-15 months)					
	Total	5.38	0.47	6.88	4.50	17.23

Source: Field Survey

Debt status

Table 5.9 shows the indebtedness of the respondents and it was found that 14.28% villagers are indebted; the amount of debt ranges from less than 50,000 INR to above 1,00,000 INR and the period for the debt ranges from less than 6 months to more than one year. 13.19% villagers said, their problems have been resolved and 1.11% of the respondents could not get their problems resolved. For resolving the problems, the respondents got help from friends and family (8.09%), from the government (5.80%), and from both (0.14%).

		District				Total
		Ba	areilly	Varana	asi	
		V	illage	Villag	ge	
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Been	Yes	4.97	0.36	5.53	3.42	14.28
Indebted	No	21.22	17.33	17.26	29.91	85.72
Total		26.19	17.69	22.79	33.33	100.00
Amount	0-50,000	2.72	0.11	3.03	1.75	7.61
(in INR)	50,000-1,00,000	1.94	0.19	1.61	1.19	4.93
	Above 1,00,000	0.31	0.06	0.89	0.48	1.74
	Total	4.97	0.36	5.53	3.42	14.28
Period	0-6 months	0.50	0.00	2.17	0.75	3.42
	6-12 months	0.78	0.28	2.08	1.98	5.12
	More than a year	3.69	0.08	1.28	0.69	5.74
Total		4.97	0.36	5.53	3.42	14.28
Problem	Yes	4.69	0.33	5.14	3.01	13.17
resolved	No	0.28	0.03	0.39	0.41	1.11
	Total	4.97	0.36	5.53	3.42	14.28

Table 5.9: Debt status of a respondents



		District				Total
		Ba	areilly	Varan	asi	
		V	illage	Villag	ge	
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Resolved	Help from friends/ family	2.72	0.03	2.75	1.76	7.26
	Help from Government	1.83	0.30	2.39	1.25	5.77
	Help from Government, Help from friends/ family	0.14	0.00	0.00	0.00	0.14
	Total	4.69	0.33	5.14	3.01	13.17

Source: Field Survey

Land Collateral debt

Table 5.10 shows the debt status of land where 6.36% villagers have a land collateral debt out of which 5.50% villagers have received NOC.

			Dist	trict		Total
		Bareilly		Varanasi		
			Village			
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Land Collateral	Yes	1.75	0.28	2.44	1.89	6.36
debt	No	24.44	17.42	20.34	31.44	93.65
Total		26.19	17.69	22.79	33.33	100.00
Received NOC	Yes	1.69	0.11	2.00	1.69	5.50
	No	0.06	0.17	0.44	0.19	0.86
Total		1.75	0.28	2.44	1.89	6.36

Source: Field Survey

Types of roads

Table 5.11 shows the types of roads constructed in village, availability of adequate light on roads, nature of light, functionality of lights. 63.66% villagers said that the roads are concrete, 17.83% villagers earthen roads, and 18.51% villagers gravel roads. 69.59% villagers said roads are equipped with adequate lights. The nature of lights are solar light and LED. Out of which 70.28% lights are functioning and 29.72% were non-functioning.



Table 5.11: Types of roads constructed in village, availability of adequate lighton roads, nature of light & functionality of lights

	District					Total
		Bareilly		Varana	asi	
			Vil	lage		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Types of Road	Concrete roads	25.72	0.00	7.11	30.83	63.66
	Earthen roads	0.19	2.00	14.47	1.17	17.83
	Gravel roads	0.28	15.69	1.21	1.33	18.51
Total		26.19	17.69	22.79	33.33	100.00
availability of	Yes	7.19	16.42	16.31	29.67	69.59
adequate light) T	10.00	1.07	6.40	2.66	20.41
on roads	No	19.00	1.27	6.48	3.66	30.41
То	tal	26.19	17.69	22.79	33.33	100.00
Nature of lights	LED	15.88	12.19	4.78	4.22	37.07
	Solar Light	10.31	5.50	18.01	29.11	62.93
Total		26.19	17.69	22.79	33.33	100.00
Functionality	Yes	7.94	17.14	19.18	26.02	70.28
of Light	No	18.25	0.55	3.61	7.31	29.72
To	tal	26.19	17.69	22.79	33.33	100.00

Source: Field Survey

Connectivity of Roads and its nature

Table 5.12 shows the connectivity of roads and its nature. 100% villagers said the roads are connected to markets nearby. The quality of roads are concrete roads (63.66%), and earthen roads (17.83%) and gravel road (18.51%).

		District				Total
		Bareilly		Varanasi		
		Village				
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Connected to	Yes	26.19	17.69	22.79	33.33	100.00
markets nearby	Concrete Road	25.72	0.00	7.11	30.83	63.66
	Earthen road	0.19	2.00	14.47	1.17	17.83
	Gravel road	0.28	15.69	1.21	1.33	18.51
Total		26.19	17.69	22.79	33.33	100.00

Table 5.12: Connectivity of Roads and its nature

Source: Field Survey

Process of Land Consolidation

Table 5.13 shows the process of land consolidation in village which shows 12.83% village have the process of land consolidation (chakbandi) where majority of villagers having that process from 1972 (8.75%) under the Government authority (12.83%).



			Dis	trict		Total
		Bareilly		Varanasi		
		Village		Villag	ge	
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Village have the process of land	Yes	0.58	0.44	1.06	10.75	12.83
consolidation (Chakbandi)	No	25.61	17.25	21.73	22.58	87.17
Total		26.19	17.69	22.79	33.33	100.00
Time period	1972	0.5	0.22	0.28	7.75	8.75
of land	1973	0	0.11	0.17	1.06	1.34
consolidation	1974	0.03	0.03	0.33	1.11	1.5
	1975	0.05	0.08	0.28	0.83	1.24
Total		0.58	0.58	0.44	1.06	10.75
Authority	Government	0.58	0.44	1.06	10.75	12.83
Total		0.58	0.44	1.06	10.75	12.83

Table 5.13: Process of Land Consolidation in village

Source: Field Survey



Chapter 6: Climate and Agriculture

Climate is an important factor for agriculture process. The climate influences the crops through changes in temperatures throughout the year and rainfalls. Many small farmers in India rely on rainfall to irrigate their crops. In this chapter it is intended to throw light on the industries operating near villages and pollution due to it, the effect of pollution on crops, natural calamities witnessed by farmers, the waterborne disease and the suicides that are related to agriculture.

Table 6.1 shows the number of respondents witnessing suicide in their friends and family and it was found that 2.94% villagers have witnessed and 97.04% have not witnessed the same. 2.34% villagers said that they have seen 0-2 number of suicides, 0.58% said 2-4 and 0.04% said 4-6. 1.25% villagers found unemployment the reason of it, 0.50% villagers the economic conditions, and 0.89% villagers family issues.

Witnessed a suicide

			Dis	strict		Total
		Bareilly		Varan	asi	
			Vil	lage		
		Tisua	Undla	Dhaurhara	Pindra	
			Jagir			
Witnessed	Yes	0.17	0.31	1.92	0.56	2.96
suicide in						
family/ friends	No	26.03	17.39	20.86	32.76	97.04
То	otal	26.20	17.70	22.78	33.32	100.00
Number of	0-2	0.17	0.28	1.47	0.42	2.34
Suicides	2-4	0.00	0.03	0.44	0.11	0.58
	4-6	0.00	0.00	0.01	0.03	0.04
То	otal	0.17	0.31	1.92	0.56	2.96
Reason	Economic	0.00	0.03	0.33	0.14	0.50
	conditions					
	Family	0.00	0.08	0.67	0.14	0.89
	problems					
	Poison	0.00	0.11	0.06	0.14	0.31
	Unemployment	0.17	0.09	0.86	0.14	1.26
To	otal	0.17	0.31	1.92	0.56	2.96

Table 6.1: No. of respondents witnessing a suicide in their friends and family

Source: Field Survey

Nearby industry and pollution

Table 6.2 shows the industry nearby and pollution due to it and it is found that 35.67% villagers said yes due to the industries there is excess of pollution issues near vicinity.



V.	Giri	National	Labour	Institute
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		District				Total
		Bareilly		Varanasi		
			Village			
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Industry near by	Yes	9.33	9.44	8.42	8.47	35.67
causing pollution						
or affecting crops	No	16.86	8.25	14.37	24.86	64.34
Total		26.19	17.69	22.79	33.33	100.00

Table 6.2: Industry nearby and pollution due to it

Source: Field Survey

Table 6.3 shows the natural calamity witnessed in the village where 59.94% villagers witness the calamity like drought (1.75%) following with flood and storms (38.33%), storms (40.06%) and storms and drought (1.97%).

Table 6.3: Natural Calamity witnessed in the village

			Dis	trict		Total
		E	Bareilly	Varana	asi	
		Vil	lage			
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Witnessed	Yes	13.67	15.22	10.69	20.36	59.94
natural calamity	No	12.52	2.47	12.10	12.97	40.06
Tot	al	26.19	17.69	22.79	33.33	100.00
Types	Drought	0.42	0.56	0.33	0.44	1.75
	Flood + Storms	7.00	10.97	6.69	13.67	38.33
	Storms	5.72	3.00	3.48	5.69	17.89
	Storms +	0.53	0.69	0.19	0.56	1.97
	Drought					
Tot	al	13.67	15.22	10.69	20.36	59.94

Source: Field Survey

Waterborne diseases

Table 6.4 shows that 90.89% of villager's families were affected by waterborne diseases such as Cholera, Malaria & Dengue (10.47%), Cholera, Dengue & Typhiod (32.97%), and Chikengunia & Chikenpox (9.17%).

Table 6.4: Waterborne diseases in village

			District			Total	
		В	Bareilly Varanasi				
			Village				
		Tisua Undla Jagir Dhaurhara Pindra					
Family	Yes	18.08	17.67	22.69	32.44	90.88	
member infected	No	8.11	0.02	0.1	0.89	9.12	
due to water borne disease							
To	otal	26.19	17.69	22.79	33.33	100.00	



			Dis	trict		Total
		В	areilly	Varanasi		
				lage		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Types	Cholera + Malaria + Dengue	2.17	6.08	0.44	1.78	10.47
	Cholera + + Dengue +Typhiod	4.86	3.75	10.78	13.58	32.97
	Hepatitis + Malaria + Dengue	2.19	2.64	1.69	1.23	7.75
	Malaria + Dengue + Typhoid	6.14	4.42	9.39	10.91	30.86
	Chikengunia + Chikenpox	2.72	0.78	0.39	4.94	8.83
To	otal	18.08	17.67	22.69	32.44	90.88

Source: Field Survey

Effect of Air pollution

Table 6.5 shows the effects of air pollution on crops and it was found 55.80% crops were affected by air pollution.

		District					
		Bareilly Varan		asi			
			Village				
		Tisua	Undla	Dhaurhara	Pindra		
			Jagir				
Air pollution	Yes	9.44	16.31	10.11	19.94	55.80	
affects crops	No	16.75	1.38	12.68	13.39	44.20	
Total		26.19	17.69	22.79	33.33	100.00	

Source: Field Survey



Chapter 7: Covid-19 and Agriculture

The pandemic of COVID-19 has affected the growth and management of Indian Agriculture system quite adversely. This chapter aims to understand the arrangement of medical facilities for COVID-19, role played by the higher authorities in these tough times, impact of COVID-19 on the cost of living of the respondents, lost of employment, migration due to it and the benefits received from the stakeholders in the study area.

Availability of Covid-19 medical facilities

Table 7.1 shows the Availability of Covid-19 medical facilities in village where 54.25% villagers agreed to it.

		5			0	
			Dist	rict		Total
		Ba	areilly	asi		
			Vill	age		
		Tisua	Ũ			
Medical facilities	Yes	0.64	0.53	21.61	31.47	54.25
available in						
Village for	No	25.55	17.16	1.18	1.86	45.75
COVID 19						
Total		26.19	17.69	22.79	33.33	100.00

Table 7.1: Availability of Covid-19 medical facilities in village

Source: Field Survey

Role of Sarpanch

Table 7.2 shows the role of Sarpanch during Covid-19. It was found that 24.74% villagers said Sarpanch helps in bringing awareness campaign for COVID-19, 13.19% distribute food & grains, 19.64% distributes mask and sanitizer to villagers, and 14.93% helps in solving various matters of villages.

		•	Ũ			
				Total		
		E	areilly	Varana	asi	
			Vill	age		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Role	Awareness campaign	8.19	13.69	0.92	1.94	24.74
Played by	for Covid-19					
Sarpanch	Distribute food and	1.53	0.69	0.47	10.50	13.19
during	grains					
COVID 19	Distruites mask and sanitizer	1.67	0.97	15.14	1.86	19.64
	Helping in every matter	1.61	0.56	3.43	9.33	14.93
	Solve cleaning related matter	1.86	0.64	1.91	1.47	5.88
	Public Distribution	11.33	1.14	0.92	8.23	21.62
	Total	26.19	17.69	22.79	33.33	100.00

Table 7.2: Role of Sarpanch during Covid-19

Source: Field Survey

Impact of Covid-19

Table 7.3 shows the Impact of Covid-19 on Cost of living. Due to this, there is an increase in price of commodities (10.25%), Increases in price of commodities with the unavailability of Commodities in the market (85.17%) and 4.58% people impacted due to Unavailability of Commodities in the market.

			Dist	rict		Total
		B	areilly	Varana	asi	
		V	illage	Villag	ge	
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Impacted	Increases in price of	1.31	1.56	4.19	3.19	10.25
cost of	commodities					
living	Increases in price	24.58	15.92	14.78	29.89	85.17
<u> </u>	of commodities +					
	Unavailability of					
	Commodities in the					
	market					
	Unavailability of	0.31	0.22	3.81	0.25	4.58
	Commodities in the					
	market					
	Total	26.19	17.69	22.78	33.33	100.00

Table 7.3: Impact of Covid-19 on Cost of living

Source: Field Survey

Loss of employment

Table 7.4 shows the loss of employment due to COVID-19. It was found that 48.53% villagers lost their jobs in pandemic.

Table 7.4: Loss of employment due to Covid-19

		District				
		В	areilly	Varana	Varanasi	
			Village			
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Loss of	Yes	7.67	5.22	17.58	18.06	48.53
employment COVID-19	No	18.53	12.47	5.19	15.28	51.47
Total		26.19	17.69	22.78	33.33	100.00

Source: Field Survey

Migration of Family/Friends/Self due to Covid-19

Table 7.5 depicts the migration of family and friends due to covid-19. It was found that 40.74% villagers faced the migration of Family/ Family / Friends / Self due to COVID-19.



		District					
		В	Bareilly Varanas				
			Village				
		Tisua	U				
Migration of	Yes	1.58	0.53	17.88	20.75	40.74	
Family/ Family /							
Friends / Self due to	No	24.61	17.16	4.91	12.58	59.26	
COVID-19							
Total		26.19	17.69	22.79	33.33	100.00	

Table 7.5: Migration of Family/Friends/Self due to Covid-19

Source: Field Survey

Benefit received from Government for Covid-19

Table 7.6 shows the benefits received from the Government for COVID-19 and 69.58% villagers received the benefits from Government.

Table 7.6: Benefit received from Government for Covid-19

			District				
		Bareilly Varanas			asi		
		Village					
		Tisua	Undla Jagir	Dhaurhara	Pindra		
Benefit received	Yes	19.08	0.50	19.14	30.86	69.58	
from Government							
for COVID-19	No	7.11	17.19	3.65	2.47	30.42	
Total		26.19	17.69	22.79	33.33	100.00	

Source: Field Survey

Friend/family/Self suffered from COVID-19

Table 7.7 shows the data of family and friends who have suffered from COVID-19. It was found that 9.03% villagers' family has suffered and 90.97% villagers have not suffered.

Table 7.7: Friend/family/Self suffered from COVID-19

		District				
		Ba	Bareilly Varanasi			
			Vill	age		
		Tisua	Undla Jagir	Dhaurhara	Pindra	
Friend/Family/	Yes	0.17	1.42	2.22	5.22	9.03
Self Suffered from COVID-19	No	26.02	16.27	20.57	28.11	90.97
Total		26.19	17.69	22.79	33.33	100.00

Source: Field Survey



Chapter 8 : Carpet Hand-Weavers



Uttar Pradesh is the hub of carpet weaving and exporting. Many artisans can be found in Varanasi and Bareilly who practice in this art. A traditional Bareilly carpet is made up of cotton yarn and cost around 300-500 rupees. In Bareilly, more than 5000 men and women are engaged in carpet weaving but the carpet industry of Bareilly is on the brink of extinction because the absence of institutional mechanism for marketing the finished products leads to inefficiency in selling by the poor weavers. The weavers are not able to manage two-time meals for their family.

Weaving carpets is one of the most tedious professions which requires long hours of static work. Carpet hand weavers have common skin problems such as hyperkucatotic nodules and hand & finger's plaques. Carpet weaving requires repetitive movement of wrist and fingers to use non-ergonomic tools (Knife, combs, scissors & other) which leads to injury. This continuous trauma plays a major role in this injury which the author has termed as "Carpet nodules" (Noorbala, et al., 2008).

Case studies were conducted in Varanasi and Bareilly to understand the problems and sufferings of the carpet weavers.



Carpet weaving is performed by both men and women workers. The workers reported that the impairments from weaving carpet are stretched till the future such as weakening of eyesight, headaches, etc. These impairments feet even are after leaving the job.

Source: Abhishek Pandey (Field Investigator)



Rustam, a 45 year old is working as a carpet weaver since 20 years in a home based factory of Kachwa Bazar, Varanasi. He and his fellow 10-12 weavers are paid 150-200 wages per day. These wages are insufficient to feed Rustam's family and the situation becomes worse when any of his family members falls ill. He mentioned that the weaving work is so exhausting that it creates continuous pain in his eyes and hands but he has to pursue this work due to lack of skills and education. He added that if he makes any mistake while designing the carpet, he is forced to lose his wages for that day as a part of compensation.

Ram Lal Bind, a 35 year old fellow worker of Rustam reported that weaving a single carpet takes around 1 month to complete and they have to work with a strict deadline as exceeding the deadline can cause delay in their payment of wages. These wages do not guarantee a good schooling for Ram's children. The tool used for weaving carpet is of shape of a moon which creates strain in the fingers while holding them for a long period of time.

Source: Ashish Kumar (Field Investigator)

Ajay Yadav, a 49 year old used to work in a factory of Delhi since 2010 but he lost his job in the times of Covid-19 and moved back to his hometown in Bareilly, then he started working in a carpet factory of Bareilly. He reported that he has lost his 2 fingers in an accident of 2015 in his Delhi's factory because of which it is difficult for him to work as a carpet weaver. Weaving causes strain in his hand but he has no other choice as he has to feed a family of 6 and pay 3500 monthly rent of his house which is also due since last 2 months. He has lost all his savings in his unemployment period but now he is desperately waiting to rejoin his Delhi's factory as Carpet weaving does not provide him sufficient wages and it is a difficult job to perform.

Source: Alok Kumar (Field Investigator)

The concerned stakeholders should take initiative to provide thread and loom to the weavers to support their work. It can also help them to export their finished products to other countries. There is a requirement of institutional mechanism for marketing the finished products of weavers like trade fairs in different parts of the country.

Note: Names of the respondents has been changed for the confidentially of the data.



Chapter 9: Agrarian Crisis: Case Study

Preliminaries	Agriculture is the foundation of the economy of India. The history of Agriculture in India begins from the Indus Valley Civilization. In terms of the Agricultural production India stands on the second position worldwide.	
Introduction and Background	Agriculture is the pillar of Indian economy and employment of the population of India. This sector is a great contributor in the development of the nation. Agriculture sector of India is undergoing a structural change which has created a situation of crisis. Hence, it is important to study the root cause of problems. It is this crisis in the sector of Agriculture which is reflected in the form of increase in price of outputs, decrease in the profit of farmers, seizing the land of small and marginal farmers by force, rise in unemployment, and reduction in wages of agricultural labourers and negligible investment in the sector. Hence, it is important to study the root cause of problems.	
Methodology	An attempt has been made to look into these matters through the case studies, collected through in-depth participatory approach. The case studies were collected from different parts of Uttar Pradesh to understand various perspectives of the issue.	
Case 1	In today's era it can be perceived that there is a lack of interest of farmers towards agricultural practices which has created a gap between the human kind and agriculture. In village Pindara of Varanasi, it is evident that there has been an increase in the population of the village but the size of land holdings is continuously decreasing. When a family expands the ancestral land is divided into various parts which results into numerous small and marginal land holdings. This gives birth to differences such as one family member illegally occupies the land of the other. These cases end up in district courts where the family spend most of end up in their life trying to win and sometimes the case stretches to next generations. This creates a barrier between Human kind and Agriculture. Due to the small and marginal sizes of divided ancestral farms the farmers are not able to irrigate, cultivate and sow their farms properly. Source: Dr Ravindra Kumar (Field Investigator)	

Case 2	The agriculture is not the main source of income for the villagers of Pindara village anymore; they have opted for other sources of income due to the less-profit nature of Agriculture activities. Such as in the family of 5 if the father is working in the fields the sons will be working in the factory or running their own business (own General store, Barber shop, Pottery, Vegetable, cloth shop etc) or working as a labour on the construction site. Whereas, the women of the family are only allowed to do household chores and take care of the family. The farmers of Pindara village are also engaged in mixed farming to gain short term income. Source: Ashish Kumar (Field Investigator)
Case 3	The process of Public Distribution System (Ration) has gone online in the recent times in India. It has created problem for the families in the village Tisua of the Bareilly district because of the technological gap present in the rural areas. They are not able to reap benefits of this programme in the times of need. Source: Arvind Kumar (Field Investigator)
Case 4	Dhaurhara village of Varanasi is situated on the bank of Naad and Gomti rivers due to which the crops cultivated in the season of rice and paddies are destroyed by the high tides of the river. Also once in every year the fields are struck with flood water which causes great destruction to the crops and the villagers cannot even claim for insurance. Another problem arises as the villagers have to live in the mid of their fields to protect prevent wild animals from eating the crops. The new generation of village is migrating to towns in the search of education and employment which leaves less population to take of agricultural activities in village. Source: Mithlesh Pandey (Field Investigator)
Case 5	Suresh pal, 48 year old of Bareilly's Undla Jagir village is a farmer by profession as his father is also a farmer and works with him in his field. He cultivates crops like wheat, rice and sugarcane. This year when he intended to cultivate a crop of rice, it was destroyed by the flood and he was left barehanded and credited. Now, he has seeded a new crop of wheat with the hope to earn good returns and payback his credits. Source: Durgesh Kumar (Field Investigator)



Results	It is noticed from the above-mentioned cases that decade by decade the gap between the agriculture and human			
	kind is widening, this is caused by disputes in families regarding land divisions and rights, migration of new generation to town in search of education & employment and less profitability of agricultural activities. Public distribution system has been a source of relief to people in the tough times of lockdown but some social classes were excluded from this benefit due to infrastructure and social reasons.			
Summary and Evaluation	Attributing to COVID-19 spread in India the farmers and non – farmers had to face many difficulties such as loss			
	of employment, inability to pay expenses, migration to hometowns, etc. The constraints in farming are evaluated as floods, wild animals, and lack of insurance of crops, credit and indebtedness of farmers.			
Conclusion	Agriculture is not the main source of income for villagers anymore due to lack of agricultural activity's profitability, income, migration and employment, hence they have opted for other professions.			
Recommendations for future	 Village officials such as Pradhan should play principal role in resolving matters pertaining to land holdings as soon as possible. The village officials (Patwari) should ensure that the process of land consolidation is conducted by officials and in fair & right manner. 			
	 Public Distribution system should be more transparent, easy to enrol & update and benefits should get easily transferred to the beneficiaries irrespective of class and cast. 			
	• Encouragement of insurance of crops and other assets of farmers for better risk management might be strengthened.			
	• Concerned Agriculture institutions are recommended to ease the process of providing credit to farmers.			
End Matter	Concerned stakeholders should generate employment and construct schools & colleges in villages to end migration of population. Not only agricultural but non- farm employment opportunities should also be generated in rural areas to support the Agriculture Sector. Mixed farming and other short-term income sources should be introduced and promoted among the farmers. Skill			
training institutions might be established in th				

Note: Names of the respondents has been changed for the confidentially of the data.



Chapter 10: Conclusion and Recommendations

- Urban agriculture increases community access to nutritious, inexpensive, fresh produce while also providing chances for residents to learn about nutrition and food production.
- It encourages people to learn about where their food originates from, how it's grown, and how they may interact with the people who grow it.
- The number of male respondents is higher than female respondents in this study. The respondents belong from villages of the selected districts of Uttar Pradesh. The respondents of the village are mostly uneducated. The majority of the respondents said that they have attended private institutions of education.
- The majority of respondents of the study were employed and their work is permanent/ main in nature. The employment can be divided between agriculture, its allied activities and non-farm employment. The large part of employed respondents is engaged in agriculture as cultivator. Speaking of Non-farm employment, the majority of respondents who are engaged in it are pursuing proffesion as embroidery workers, selling vegetables a shopkeepers and other small professions. The allied activities of agriculture also attract numerous respondents from villages. The wages earned in villages on an average is between 200-400 INR.
- The majority of farmers own their land and remaining are using leased land to perfrom agricultural activities. The large portion of respondents is of small and marginal farmers, owing 0-1 hectare of land. These lands can be divided on the basis of their usage into cultivable land and non cultivable/ barren land. Cultivable land is used for Agriculture purposes and non cultivable land is used for own living and keeping cattles. The majority of farmers have knowledge regarding the type of soil their land has and reported that to be alluvial soil.
- In this study it was found that crops produced by majority of the farmers are food grains crops and it was found that the reason for harvesting such crops is easy avaialability of seeds to the farmers. The seeds were purchased from cultivaters; and only very small number of respondents buy seeds from Government dedicated shops. The tools used by today's farmers were a combination of traditional methods and technology which includes sickle, harvestor and spring tooth cultivator together for harvesting their crops.
- For irrigation of crops the tubewells are most used method whereas wells are of minimum use for a modern farmer. Most of the farmers cultivate 2-4 crops in a year and the annual income of these farmers is 50,000 INR. The farmers reported that they price their crops by themselves and use containers and jute bags to store them for their easy transportation using Government Vehilcles to the markets. Talking about the risk management of the farmer's regarding their crops; it was found that farmers' uses techniques like insurance of crops and avail credit facilities to mitigate agricultural risks and uses pesticides to keep their crops safe from insects.



- It was witnessed that the Government welfare policies are not much availed in villages. It can be said that respondents belonging from villages are less aware of such polices and schemes and it might be difficult for them to access these facilities easily than respondents belonging from towns. The villagers access Lok Adalats and Tehsil Divisions have more respondents. The training for Agriculture is acquired by fewer farmers of the study.
- The emerging challenges reported in the studies can be seen as Unemployment at large and damaged infrastructure is also a topic for worry for the respondents. Banking servies are very popular among the respondents of all the villages but the credit facilities have not received the same popularity.
- The respondents have explained that flood is the natural calamity which harms their agricultural produce almost every year and the industries nearby gives birth to air pollution which affects their crops.
- As the study took place in the Covid-19 time period it is important to discuss the effect of Covid-19 on the respondents and their life. The majority of facilities were available in the villages to battle Covid-19. The Sarpanches and Local Administration played a role in these tough times by distributing ration and sanitizing the villages. It is important to notice that Covid-19 has increased the cost of living as per the respondents. Some have reported that they have lost their employment due to it and many have migrated to their hometowns due to it.

RECOMMENDATIONS:

Advocates and officials are working to create policies that will help urban agriculture thrive. While some of these policies benefit low-income and minority communities, there is still room to campaign for policies that benefit the very people who will gain the most from urban farms in their neighbourhoods. Authorities and concerned stakeholders should aim at creating awareness regarding the welfare policies, schemes and agriculture training programmes available to the people. So that they can take benefit from it.

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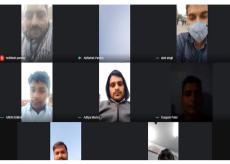
Annexure

Glimpes from the study

Annexure 1



An online meeting with the Field Investigators



An online meeting with the Field Investigators



A field Investigator interviewing the locals



A field Investigator interviewing a local



A field Investigator interviewing the Gram Pradhan (Dhaurhara)



Gram Panchayat office (Undla Jagir)



Annexure: 2

Village Questionnaire

Your precious responses are required for this research study. Please tick at appropriate box in the given grid or circle the appropriate response. Some questions may have multiple responses. The data provided will be kept confidential and will be used solely for the purpose of research.

इस शोध अध्ययन के लिए आपकी बहुमूल्य प्रतिक्रियाएँ आवश्यक हैं। कृपया दिए गए उपयुक्त बॉक्स पर टिक करें या उचित प्रतिक्रिया पर गोला लगाएं। कुछ सवालों के कई जबाब हो सकते हैं। उपलब्ध कराए गए डाटा को गुप्त रखा जाएगा और इसका उपयोग केवल अनुसंधान के उद्देश्य से किया जाएगा।

3	
1. Date / दिनांक	
2. Name of the Field Investigator / अन्वेषक का	
नाम	
3. District / जिला	EAST/WEST: पूर्वी/ पश्चिम
4. Village / गाँव	
5. Name of the Respondent / उत्तरदाता का नाम	
5.1 Number of dependent family members? Please	1. 1-2
specify the details.	2. 3-4
आश्रित परिवार के सदस्यों की संख्या? कृपया विवरण	3. 5-6
निर्दिष्ट करें।	4. Any other, Please specify / अन्य कोई, कृपया उल्लिखित करें
6. Sex / लिंग	MALE पुरुष /FEMALE स्त्री /TRANSGENDER ट्रान्सजेंडर
	Any other please specify / अन्य कोई, कृपया उल्लिखित करें
7. Age / आयु	
8. Category / वर्ग	GENERAL / सामान्य
6- V ·	OBC/ अन्य पिछड़ा वर्ग
	SC/ अनुसूचित जाति
	ST/ अनुसूचित जनजाति
9. What is the highest educational qualification	1. Primary level / प्राथमिक स्तर
vou have?	 Matric / High School /मैट्रिक / हाई स्कूल
आपकी उच्चतम शैक्षिक योग्यता क्या हैं ?	3. Secondary and higher secondary/ माध्यमिक और उच्चतर
	माध्यमिक
	4. Graduation/Diploma/Certificate स्नातक/डिप्लोमा/ प्रमाणपत्र
	5 Any Other, please specify / अन्य कोई, कृपया उल्लिखित करें
9.1 From which type of institution you have	1. Government / सरकारी
obtained your qualifications?	2. Private / निजी
आपने अपनी शैक्षिक योग्यताएँ किस प्रकार की संस्था से	3. Deemed / डीम्ड
प्राप्त की हैं ?	4. Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
9.2 From where you have obtained your Primary	1. Own village / अपने गाँव से
qualifications?	 Town near village / गाँव के पास के कस्बा से
आपने प्राथमिक योग्यता कहाँ से प्राप्त की है ?	3. Own state / अपने राज्य से
	4. Other state / अन्य राज्य से
	Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
9.3 From where you have obtained your	1. Own village / अपने गाँव से
Secondary qualifications?	 Town near village / गाँव के पास के कस्बा से
आपने माध्यमिक योग्यता कहाँ से प्राप्त की है ?	3. Own state / अपने राज्य से
	4. Other state / अन्य राज्य से
	Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
9.4 From where you have obtained your Higher	1. Own village / अपने गाँव से
Secondary qualifications?	 Town near village / गाँव के पास के कस्बा से
आपने उच्चतर माध्यमिक योग्यता कहाँ से प्राप्त की है ?	3. Own state / अपने राज्य से
	4. Other state / अन्य राज्य से
	5. Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
	or may only prouse speens a my or a gran or character



9.5 From where you have obtained your	1. Own village / अपने गाँव से
Graduation/Diploma/Certificate qualifications?	2. Town near village / गाँव के पास के कस्बा से
आपने अपना स्नातक / डिप्लोमा / प्रमाणपत्र योग्यता कहाँ	3. Own state / अपने राज्य से
से प्राप्त की है?	4. Other state / अन्य राज्य से
	5. Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
10. Are you employed?	Yes/No हाँ / नहीं
क्या आप कहीं कार्यरत हैं?	
10.1 What is your Activity Status?	1. Working /Employed / कार्यरत नियुक्ति
आपकी गतिविधि की स्थिति क्या है?	2. Seeking or Available for work/Unemployed / काम की
	तलाश में या काम के लिए उपलब्ध/ बेरोजगार
	3. Neither seeking nor available for work / काम के लिए न
	तो मांग करना और न ही उपलब्ध होना
	4. Any Other, Please Specify / कोई अन्य, कृपया उल्लिखित
	करें
10.2 If yes, what is the type of your employment?	1. Agricultural labour / কৃষি
यदि हाँ, तो आपके रोजगार का प्रकार क्या है ?	 Agricultural rabout / यूगप Non-Farm employment / गैर-कृषि रोजगार
वाद हा, ता जावक राजगार का प्रकार क्या ह :	Please specify
	3. Construction / निर्माण कार्य
10.2 KN-n E-melement then also	4. Any Other, please specify / कोई अन्य, कृपया उल्लिखित करे
10.3 If Non-Farm Employment, then please	
specify. यदि गैर कर्षि सेचगर हैं जो कारण निर्दिष करें	
यदि गैर-कृषि रोजगार हैं, तो कृपया निर्दिष्ट करें	
10.4 What is the duration of your employment?	1. Main worker (Permanent) /मुख्य कर्मकार (स्थायी)
आपके रोजगार की अवधि क्या है ?	2. Marginal worker (0-3 months) / सीमांत कर्मकार (0-3 महीने)
	3. Marginal worker (3-6 months) / सीमांत कर्मकार (3-6 महीने)
	4. Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
10.5 How much wages do you receive per day (in	1. 0-100
INR)?	2. 100-200300-400
आपको प्रतिदिन कितनी मजदूरी मिलती है (रुपए में)	4. Any Other, please specify/ कोई अन्य, कृपया उल्लिखित करें
11. Are you engaged in any allied activity of	Yes/No हाँ / नहीं
Agriculture?	
क्या आप कृषि की किसी भी संबद्ध गतिविधि में संलग्न हैं?	
11.1 If yes, then tick among the alternatives	1. Pottery/ मिट्टी के बर्तनों
provided?	2. Weaver / जुलाहा
यदि हाँ, तो दिए गए विकल्पों में से टिक करें?	 Cattle rarer/ मवेशी चराने वाला
	4. Cultivator / कृषक
	5. Patwari / पटवारी
	6. Mechanic / मैकेनिक
	7. Dairy Farmer / डेयरी किसान
	8. Shopkeeper / दुकानदार
	9. Fisher Person / मछुआरा
	10. Metal Worker / धातु कर्मी
	11. Craftsman / शिल्पकार
	12. Peddlers / फेरीवाला
	13. Blacksmith / लोहार
	14. Handicraft worker / हस्तकला कर्मी
	15. Knitter / बुनकर
	16. Cabinet maker /कैबिनेट बनाने वाला
	17. Wood crafter/ बढ़ई
	18. Silk painter / रेशम का चित्रकार
	19. Embroidery worker / कढ़ाई कर्मी
	20. Any Other, please specify / कोई अन्य, कृपया उल्लिखित
	करें
12. Do you own any land?	Yes/No हाँ / नहीं
क्या आपके पास कोई जमीन है ?	



12.1 If yes, what is the size of land holding?	1. 0-1 bigha / बीघा
यदि हाँ , तो भूमि जोत का आकार क्या है ?	2. 1-2 bigha / बीघा
	3. 2-4 bigha / बीघा
	4. Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
12.2 Do you own documents pertaining to the land	
you own?	
क्या आपके पास स्वयं की भूमि से संबंधित दस्तावेज़ हैं ?	
12.3 If no, reason for the same?	
यदि नहीं, तो कारण बताएँ ?	
12.4 How do you utilize your land?	Cultivation land / खेती योग्य भूमि
आप अपनी भूमि का क्या उपयोग करते हैं ?	Non cultivation (barren) land / बंजर और अनुपजाऊ भूमि
	Non-Agricultural uses / गैर-कृषि उपयोग
	Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
12.5 If Non – Cultivation (barren) land, please	For Cattle/ मवेशी के लिए
specify the use?	For Graveyard/ कब्रिस्तान के लिए
यदि गैर-कृषि (बंजर) भूमि, तो कृपया उपयोग निर्दिष्ट करें?	For Storage/ भंडारण के लिए
	For Living/ रहने के लिए
	Any Other, please specify/ कोई अन्य, कृपया उल्लिखित करें
12.6 What types of crops are produced in your	Food Grain (wheat, rice, pulses) / खाद्यान्न (गेहूँ, चावल, दालें)
	Cash Crops (fruits, vegetables, sugarcane, oilseeds) /
आपकी भूमि में किस प्रकार की फसलों की खेती होती है?	नकदी फसलें (फल, सब्जियाँ, गन्ना, तिलहन) Cattle field / चारागाह
	Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
12.7 Reason for cultivating above mentioned	1. Easy availability of seeds / आसानी से बीज की उपलब्धता
crops?	2. Can be cultivated in a short time period / कम समय
इस प्रकार की फसलें उगाने का कारण बताएँ?	अवधि में खेती की जा सकती है।
	3. Low cost / कम लागत
	4. Any Other, please specify/ कोई अन्य, कृपया उल्लिखित करें
13. How many crops do you cultivate in a year? आप एक वर्ष में कितनी फसल उगाते हैं ?	0-2
आप एक वर्ष म कितना कसल उगात ह ?	2-4 4-6
	4-0 Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
13.1 What Technology is used for cultivation?	Sickle / हॅसिया
खेती के लिए किस तरह की तकनीक का प्रयोग किया जाता	Harvester / हार्वेस्टर
है?	Spring tooth cultivator / स्प्रिंग टूथ हैरो
¢.	Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
14. From where do you purchase seeds for	From cultivators / खेती करने वालों से
production?	Government / सरकार से
आप उत्पादन के लिए बीज कहाँ से खरीदते हैं ?	Self/ स्वयं
	Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
15. Do you irrigate your land?	Yes/No हाँ / नहीं
क्या आप अपनी जमीन की सिंचाई करते हैं ?	
15.1 What are the sources that are used for	1. Canal / नहर
irrigation?	2. Tube well (GOVT./PRIVATE) / ट्यूबवेल (सरकारी / निजी)
वे कौन से स्रोत हैं जिनका उपयोग करके सिंचाई की जाती	3. Wells / कुआँ
है ?	4. Tanks, lakes or ponds / टैंक, झील या तालाब
	5. Any Other, please specify / कोई अन्य, कृपया उल्लिखित करें
16. Do you have any knowledge regarding the	Yes/No हाँ / नहीं
type of your soil?	
क्या आपको अपनी मिट्टी के प्रकार के बारे में कोई जानकारी	
है?	
16.1 If yes, then what type of soil your land owns?	Alluvial soil / जलोढ़ मिट्टी
यदि हाँ, तो आपकी भूमि की मिट्टी किस प्रकार की है ?	Black soil / काली मिट्टी
	Red soil / लाल मिट्टी
	Any other, please specify/ कोई अन्य, कृपया उल्लिखित करें



17. How much do you earn from your crop	Less than 50,000 / 50,000 से कम
production annually?	50,000-1,00,000 / 50,000-1,00,000 तक
आप फसल उत्पादन से वर्ष में कितना कमाते हैं ?	More than 1,00,000 / 1,00,000 से अधिक
	4. Any other, please specify / कोई अन्य, कृपया उल्लिखित करें
18. How do you price your crops?	1. With the help of brokers / दलालों की मदद से
आप अपनी फसलों की कीमत कैसे लगाते हैं ?	2. Self / स्वय
	3. Government / सरकार की मदद से
	4. Any other, please specify / कोई अन्य, कृपया उल्लिखित करें
19. How do you store your crops?	1. Silos/Granaries / अनाज का भंडार
आप अपनी फसलों को कैसे संग्रहीत करते हैं ?	2. Cold storage / कोल्ड स्टोरेज
	3. Containers/Jute bags / कंटेनर या जूट के बैग
	4. Any other, please specify / कोई अन्य, कृपया उल्लिखित करें
20. How do you transport your crops? आप अपनी फसलों का परिवहन कैसे करते हैं ?	Lorries/लारियाँ
आप अपना फसला का पारवहन कस करत ह ?	Buses/Government vehicle /बस या सरकारी वाहन
	own vehicle/ स्वयं का वाहन
21 Will at store to see the second se	Any other, please specify / कोई अन्य, कृपया उल्लिखित करें
21. What strategy do you use for risk management?	1. Insurance of crops / फसलों का बीमा
management: आप जोखिम प्रबंधन के लिए किस रणनीति का उपयोग	2. Credit schemes (of Government) /सरकार की क्रेडिट योजनाएँ
करते हैं ?	3. Following Government guidelines/ सरकारी दिशानिंदेशों का
	पालन 4 If Covernment quidelines are followed places specify
	4. If Government guidelines are followed please specify
	the nature. /यदि सरकारी दिशानिर्देशों का पालन किया जाता है
	तो प्रकृति निर्दिष्ट करें॥
	5. Any other, please specify / कोई अन्य, कृपया उल्लखिति करें
22. Have you ever availed any Government policy	Yes/No हाँ / नहीं
for Agriculture?	
क्या आपने कभी कृषि के लिए किसी सरकारी नीति का लाभ उठाया है ?	
22.1 If yes, then which one?	1. Pradhan Mantri Fasal Bima Yojana (PMFBY) /प्रधानमंत्री
यदि हाँ, तो कौन सी ?	फसल बीमा योजना
	 Pradhan Mantri Krishi Sinchai Yojana (PMKSY)/
	प्रधानमंत्री कृषि सिंचाई योजना
	3. Paramparagat Krishi Vikas Yojana (PKVY) / परपरागत
	कृषि विकास योजना
	4. Any other, please specify / कोई अन्य, कृपया उल्लिखित करें
22.2 Did it provide any benefit to you?	Yes/No हाँ / नहीं
क्या आपको इससे कोई लाभ हुआ ?	Σ7 DJ → [*] / - Ω
23. Have you ever acquired any training for Agriculture?	Yes/No हाँ / नहीं
Agriculture: क्या आपने कभी कृषि के लिए कोई प्रशिक्षण प्राप्त किया ?	
23.1 If yes, then which one?	1. Seed village program / गाँव बीज कार्यक्रम
यदि हाँ, तो कौन सा ?	 Post-harvest technology management / पोस्ट-हार्वेस्ट
	2. Fost-narvest technology management / पास्ट-हायस्ट तकनीकी प्रबंधन
	রেনাজা সম্বর্ণ 3. Sub-mission on agriculture mechanism (SMAM) / কৃষি
	तंतर पर उप-मिशन
	4. Any other, please specify / कोई अन्य, कृपया उल्लिखित करें
24. What communication services do you use?	 Mobile phone /मोबाइल
आप किन संचार सेवाओं का उपयोग करते हैं ?	2. Landline phone / लैंडलाइन फोन
	3. Internet/ इंटरनेट
	4. Telephone Booth / टेलीफोन बूथ
	5. Any other, please specify / कोई अन्य, कृपया उल्लिखित करें
25. Do you avail any banking services?	Yes/No हॉ / नहीं
क्या आप किसी बैंकिंग सेवा का लाभ उठाते हैं ?	



25.1 If yes, then what is the nature of the service? 1. Savings and Current account 'करत और चात् खाता चां चां चां चां चां चां चां चां चां चा		
3. Fixed deposits/ सायपि यमा 4. Any other, please specify/ कोई अन्य, कूपया उल्लिखित करें 26. Do you access credit facilities? क्या आप कप्र सुविधाओं का उपयोप करते हैं ? 26. What are the sources of credit facilities available in your village? आपके गाँव में ज्ञाप सुविधाओं का उपयोप करते हैं ? 26. What are the sources of credit facilities available in your village? आपके गाँव में ज्ञाप सुविधाओं क क्या सोत उपलब्ध हैं ? 26. Joy much (in INR)? 1. Money lenders/ मार्ग्वार 26. Joy our village? 26. Joy our village? 26. Joy our village? 26. Joy our village? 3. fyes, Have you ever availed any of the about it solution? at दे हा, तो क्या उपयोक की उपरोक्त में से किसी सुविधा का सालग (15 months - 5 years) / संप्रेक्त न्यू अपया उल्लिखित करें 27. Have you ever faced any difficulty in accessing credit facilities? वर हो तो क्या प्रार्थ करा हिं ? 27. Have you ever faced any difficulty in accessing credit facilities? वरा तो कितना किया है ? 27. Have you ever faced any difficulty in accessing credit facilities? क्या आपने के का क्या सुविधाओं तक ugap में किसी कुरिया (16 with a struct) 28. Have you ever bace indebted? क्या आपने के का क्या सुवधा ते के (16 with a struct) 28. Have you ever bace indebted?		
4. Any other, please specify / मेंई अन्य, कृपया उल्लिखित में? 26. Do you access credit facilities? ear and way ufglauria in a radin करते हैं? 26. What are the sources of credit facilities available in your village? with in a H and H a	यदि हाँ, तो कोन सी ?	
26. Do you access credit facilities? Yes/No ही / नहीं earl आप क्राज मुनियाओं का उपयोग करते हैं ? Co-operative credit sociites? सहकारी क्रण समतिथिं All What are the sources of credit facilities I. Money lenders/ साह्कार available in your village? Co-operative credit sociites? सहकारी क्रण समतिथिं available in your village? Co-operative credit sociites? सहकारी क्रण समतिथिं available in your village? Relatives/Friends/ सिरेवस? / तीस available in your village? Relatives/Friends/ सिरेवस? / तीस available in your village? I. 0.50,000 पचास इजार तेक 26.3 If yes, Have you ever availed any of the above facilities? State its duration? I. Non term (15 month-5 years) / स्वर्य कारी (51-0)महीने artif हो, तो बचा अपने कभी उपरोक में में किसी सुविया का entw agree है? I. Short term (0-15 month-5 years) / स्वर्य कारिक (5 वंप से अर्थाक) artif हो, तो क्या अपने कभी क्रण सुवियाओं तक पहुँचने में किसी I. 0.50,000 पचास इजार तक credit facilities? Any other, please specify/ को हे अन्य, कृराया उल्लिब करें 27.1 If Yes, please specify. The start is a sta start is a start is		
भया आप कुण युविधाओं का उपयोग करते हैं ? 26.1 What are the sources of credit facilities available in your village? avruès गाँव में क्रण सुविधा के क्या स्रोत उपलब्ध हैं ? 26.2 How much (in INR)? कितना (में रुपए)? 26.2 How much (in INR)? कितना (में रुपए)? 26.3 If yes, Have you ever availed any of the above facilities? State is duration? 40.5 Stowe 1.0,0,000 पचसा हजार से एक लाख तक 3. Above 1.0,0,000 पचस हजार से प्रक ताख तक 3. Above 1.0,000 प्रल माक ते स्रव ते से से 3. Above 1.0,000 प्रल माक ते स्रव		4. Any other, please specify / कोई अन्य, कृपया उल्लिखित करें
26.1 What are the sources of credit facilities available in your village? 1. Money lenders? साहकर 2. Co-operative credit societies? सकसी क्रण ममतिथिं arusà गांव में कण सुविधा के बया सांत उपलब्ध हैं ? 2. Co-operative credit societies? सकसी क्रण मतिथिं arusà गांव में कण सुविधा के बया सांत उपलब्ध हैं ? 2. Co-operative credit societies? सकसी क्रण मतिथिं 3. Above 1,00,000 एक लाख से अपिक 1. 0.50,000 पचसा हवार तक 3. Above 1,00,000 एक लाख से अपिक 3. Above 1,00,000 एक लाख से अपिक 4. Any other, please specify? कोई अन्य, कृपया उल्लिखित करें 26.2 How much (in INR)? 1. 0.50,000 पचसा हवार तक 3. Above 1,00,000 एक लाख से अपिक 3. Above 1,00,000 एक लाख से अपिक 4. Any other, please specify? कोई अन्य, कृपया उल्लिखित करें 26.3 If yes, Have you ever availed any of the abov facilities? State is duration? 1. Shotrerm (0-15 months -5 years)/ स्वर्थ का (51-0)मरीने 21. Hyes you ever faced any difficulty in accessing credit facilities? 1. 0.50,000 पचास हवार तक 27.1 HYes, please specify. 1. 0.50,000 पचास हवार तक 28.1 Hyes to above, how much deb!? 1. 0.50,000 पचास हवार तक 28.1 Hyes to above, how much deb!? 1. 0.50,000 पचास हवार तक 28.1 Hyes to above, how much deb!? 1. 0.60 months /मदीने 28.1 Hyes to above, how much deb!? 1. 0.66 months /मदीने 28.1 Hyes to above, how much deb!? 1. 0.66 months /मदीने 28.3 Was the problem resolved? Yes/No ही / नही <	26. Do you access credit facilities?	Yes/No हाँ / नहीं
26.1 What are the sources of credit facilities available in your village? 1. Money lenders? साहकर 2. Co-operative credit societies? सकसी क्रण ममतिथिं arusà गांव में कण सुविधा के बया सांत उपलब्ध हैं ? 2. Co-operative credit societies? सकसी क्रण मतिथिं arusà गांव में कण सुविधा के बया सांत उपलब्ध हैं ? 2. Co-operative credit societies? सकसी क्रण मतिथिं 3. Above 1,00,000 एक लाख से अपिक 1. 0.50,000 पचसा हवार तक 3. Above 1,00,000 एक लाख से अपिक 3. Above 1,00,000 एक लाख से अपिक 4. Any other, please specify? कोई अन्य, कृपया उल्लिखित करें 26.2 How much (in INR)? 1. 0.50,000 पचसा हवार तक 3. Above 1,00,000 एक लाख से अपिक 3. Above 1,00,000 एक लाख से अपिक 4. Any other, please specify? कोई अन्य, कृपया उल्लिखित करें 26.3 If yes, Have you ever availed any of the abov facilities? State is duration? 1. Shotrerm (0-15 months -5 years)/ स्वर्थ का (51-0)मरीने 21. Hyes you ever faced any difficulty in accessing credit facilities? 1. 0.50,000 पचास हवार तक 27.1 HYes, please specify. 1. 0.50,000 पचास हवार तक 28.1 Hyes to above, how much deb!? 1. 0.50,000 पचास हवार तक 28.1 Hyes to above, how much deb!? 1. 0.50,000 पचास हवार तक 28.1 Hyes to above, how much deb!? 1. 0.60 months /मदीने 28.1 Hyes to above, how much deb!? 1. 0.66 months /मदीने 28.1 Hyes to above, how much deb!? 1. 0.66 months /मदीने 28.3 Was the problem resolved? Yes/No ही / नही <	क्या आप ऋण सुविधाओं का उपयोग करते हैं ?	
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आपके गाँव में क्रण सुविधा के कया स्रोत उपलब्ध हैं ?3.Government/Banks/treatl / वैक 4.26.2 How much (in INR)? कितना (में रुपए)?1.0.50,000-10,0000 पचास हजार तेक 5.26.3 If yes, Have you ever availed any of the above facilities? State its duration? यदि हो, तो क्या अपने कभी उपरोक्त में से किसी सुविधा क ता पारे हजार तेक 5. Short term (0.15 months) लघु अर्थी (51-0)//// कीई 4. Any other, please specify/ कोई अन्य, कृपया उल्लिखित करें 2.27.1 Have you ever availed any of the above facilities? State its duration? यदि हो, तो क्या अपने कभी उपरोक्त में से किसी सुविधा क तिवारों का पहुंच में किसी सुविधा क रात हो / नहीं27. Have you ever faced any difficulty in accessing redit facilities?Norther (0.15 months) लघु अर्थी (5.0) महों 5.27.1 Have you ever faced any difficulty in accessing redit facilities?Yes/Noहो / नहीं28.1 If yes to above, how much debt? यदि हो, तो क्रियना निरंद करो 2.Yes/Noहो / नहीं28.2 For how long period of time? fach नं ते स साधान हुआ ?1.0.50,000 पचास हजार तक 2.5.28.3 Was the problem resolved? क्या समस्या का साधायान हुआ ?Yes/Noहो / नहीं28.4 Hy you was it resolved? क्या समस्या का साधायान हुआ ?Yes/Noहो / नहीं29.1 Hy yes, was it resolved? वया साधाया के के सुवार ?Yes/Noहो / नहीं29.2 Have ever your land been in collateral/debt? वया ती (नहीं कर्य स कुपया उल्लिखित करें ??Yes/Noहो / नहीं29.1 Hy yes, as a fir et the debt was paid have you received your NOC for the same? यदि हो , कं के सुपता के का अपके का के सुराया के हे??Yes/Noहो / नहीं29.1 Hy yes, atter the debt was paid have		2. Co-operative credit societies/ सहकारी ऋण समतियाँ
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31. Have you ever witnessed any suicide in your Yes/No हाँ / नहीं family/friends?		Yes/No हा / नहा
family/friends?		··· ··· ··· ··· ··· ··· ···· ···· ······
		Yes/No हा / नहा
क्या आपक परिवार में कभा किसा ने आत्महत्या का हे ?		
	क्या आपक पारवार म कभा किसी ने आत्महत्या की हे ?	





31.1 If yes, then how many?	1. 0-2
यदि हाँ, तो कितने लोगों ने ?	2. 2-4
	3. 4-6
	4. Any Other, please specify/ कोई अन्य, कृपया उल्लिखित करें
31.2 What was the reason for the same?	
उसका कारण क्या था ?	
32. What are the types of roads constructed in	1. Earthen roads/ मिट्टी की सड़कें
your village?	2. Gravel roads/ बजरी वाली सड़कें
आपके गाँव में किस प्रकार की सड़कों का निर्माण किया	3. Concrete roads/ कंकीट वाली सड़कें
गया है ?	4. Any Other, please specify/ कोई अन्य, कृपया उल्लिखित करें
32.1 Are these roads equipped with adequate	Yes/No हाँ / नहीं
lights?	
क्या सड़कों पर लाईट की पर्याप्त सुविधा है?	
32.2 If yes, then what is the nature of lights?	
यदि हाँ, तो लाईट की प्रकृति क्या है ?	
32.3 Are those lights functional?	Yes/No हाँ / नहीं
क्या ये लाईटें चालू हालत में हैं ?	
32.4 Are roads connected to the markets nearby?	Yes/No हाँ / नहीं
क्या सड़कें पास के बाज़ार से जुड़ी हैं ?	
32.5 If yes, what is the nature of the roads?	
यदि हाँ, तो सड़कों की प्रकृति क्या है ?	х. м.
33. Is there any industry nearby that is causing	Yes/No हाँ / नहीं
pollution or affecting your crops?	
क्या आसपास कोई उद्योग है जो प्रदूषण पैदा करता है	
अथवा आपकी फसलों को प्रभावित करता है ?	بر ۲۰
34. Have you ever witnessed any natural calamity	Yes/No हॉ / नहीं
in your village ever?	
क्या आपने गाँव में कभी कोई प्राकृतिक आपदा देखी है ?	
34.1 If yes, then which one?	1. Flood/ बाढ়
यदि हाँ, तो कौन सी ?	2. Storms/ तूफान
	 Drought/ सूखा Any Other, please specify/ कोई अन्य, कृपया उल्लिखित करें
25. Have you on any other member of your family.	 Any Other, please specify/ कोई अन्य, कृपया उल्लिखित करे Yes/No हाँ / नहीं
35. Have you or any other member of your family fallen ill due to any waterborne disease?	1 CS/INO 61 / 161
क्या आप या आपके परिवार का कोई अन्य सदस्य किसी	
जलजनित बीमारी के कारण रोगग्रस्त हुआ ?	
35.1 If yes, then which one?	1. Hepatitis/ हेपिटाइटस
यदि हाँ, तो कौन से रोग से ?	2. Cholera/ हैज़ा
	3. Typhoid/ टাइफ़ाइड
	4. Malaria/ मलोरिया
	5. Dengue/डेंगू
	6. Any Other, please specify/ कोई अन्य, कृपया उल्लिखित करें
36. Do you think that air pollution affects your crop?	Yes/No हाँ / नहीं
क्या आपको लगता है कि वायु प्रदूषण आपकी फसल को	
प्रभावित करता है ?	
37. Did your village have the process of land	Yes/No हाँ / नहीं
consolidation (chakbandi)?	
क्या आपके गाँव में भूमि चकबंदी की प्रक्रिया थी ?	
37.1 If yes, when?	
यदि हाँ, तो कब ?	
37.2 Who did the land consolidation?	
किसके द्वारा भूमि की चकबंदी की गई ?	
38. Do You have access to Lok Adalat?	Yes/No हाँ / नहीं
क्या आपके पास लोक अदालत तक पहुँच है?	



39. Do you have access to Tehsils Divisions?	Yes/No	हाँ / नहीं
क्या आपके पास तहसील प्रभागों तक पहुंच है?		
39.1 If Yes, are they beneficial to you?	Yes/No	हाँ / नहीं
यदि हाँ, तो क्या वे आपके लिए फायदेमंद हैं?		
39.2 If Yes, How?		
यदि हाँ, तो कैसे?		
40. Do you have any of the following documents?		ar Card / आधार कार्ड
क्या आपके पास निम्नलिखित में से कोई दस्तावेज है?		Card / वोटर कार्ड
		Card / राशन कार्ड
		her, Please Specify/ कोई अन्य, कृपया उल्लिखित करें हाँ / नहीं
41. Have you or any one of your friend/family suffered from COVID-19?	Yes/No	हा / नहा
sumered from COVID-19? क्या आप या आपका कोई दोस्त / परिवार COVID -19		
क्या आप या आपका काइ दास्त / पारवार COVID-19 से पीडित है?		
42. Were necessary medical facilities available in	Yes/No	हाँ / नहीं
your village for COVID-19?	1 03/140	
क्या COVID-19 के लिए आपके गाँव में आवश्यक		
चिकित्सा सुविधाएँ उपलब्ध थीं?		
42.1 What role was played by the Sarpanch		
during this period?		
इस दौरान सरपंच ने क्या भूमिका निभाई?		
43. How it impacted the cost of living in your	1. Increases	s in price of commodities / वस्तुओं के मूल्य में वृद्धि
Village?		ability of Commodities in the market. / बाजार में
इसने आपके गाँव में जीवन यापन की लागत को कैसे		ो अनुपलब्धता
प्रभावित किया ?	3 Any Oth	
		er, please specify/ कोई अन्य, कृपया उल्लिखित करें
44. Did you lost your employment because of	Yes/No	er, please specify/ कोई अन्य, कृपया उल्लाखत कर हाँ / नहीं
COVID-19?		
COVID-19? क्या आपने COVID-19 के कारण अपना रोजगार खो		
COVID-19? क्या आपने COVID-19 के कारण अपना रोजगार खो दिया है?	Yes/No	हाँ / नहीं
COVID-19? क्या आपने COVID-19 के कारण अपना रोजगार खो दिया है? 45. Have any one in your family/Friend migrated		
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For all editorial/business correspondence, please contact:

Editor Labour & Development V.V. Giri National Labour Institute Sector-24, Noida-201 301, U.P., India E-mail: labouranddevelopmentvvgnli@gmail.com

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