To The Dean, Research Studies, University of Jammu, Jammu

Sub: Final Report of project under SEED grant of Dr.Md. Sarfaraz Asgher, Associate Professor.

Madam,

With reference to letter No. DRS/24/1150-73 dated 21.05.2024 regarding the subject cited above. In this regard please find enclosed the Final Report of the project and utilization certificate under SEED grant of Dr.Md. Sarfaraz Asgher, Associate Professor. This is for your kind consideration and necessary action.

Thanking you,

18/10/2024

Yours sincerely,

(Prof. Md. Sarfaraz Asgher) HOD Geography



P.G. DEPARTMENT OF GEOGRAPHY UNIVERSITY OF JAMMU

Dtd: 13/06/2022

No: PGD/Geog/ 22/4022

To

The Deputy Registrar, RUSA, University of Jammu, Jammu.

Sub: Reports of Projects and details of Utilization of RUSA-2.0 grant.

Sir/Madam,

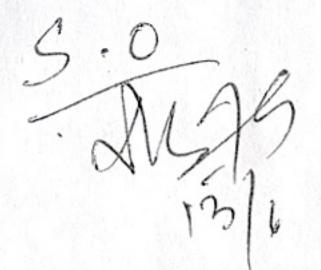
With reference to your Circular No. RUSAJU/2022-23/136/12777 dated

26.05.2022 kindly find enclosed herewith the Reports of Projects and details of Utilization of RUSA-2.0 of : 1. Prof. Anuradha Sharma, HOD, 2. Dr. Mohd. Sarfaraz Asgher, Associate Professor 3. Dr. Shashi Prabha, Assistant Professor and 4. Dr. Inder Jeet Singh, Assistant Professor who have received Seed Grant/ Strengthening Research Grant under the budget head P03 Expenditure on Capital Account, R11 Research and Innovation. This is for your kind consideration and necessary action.

Thanking you,

(Prof. Anuradha Sharma) HOD Geography

Yours sincerely,



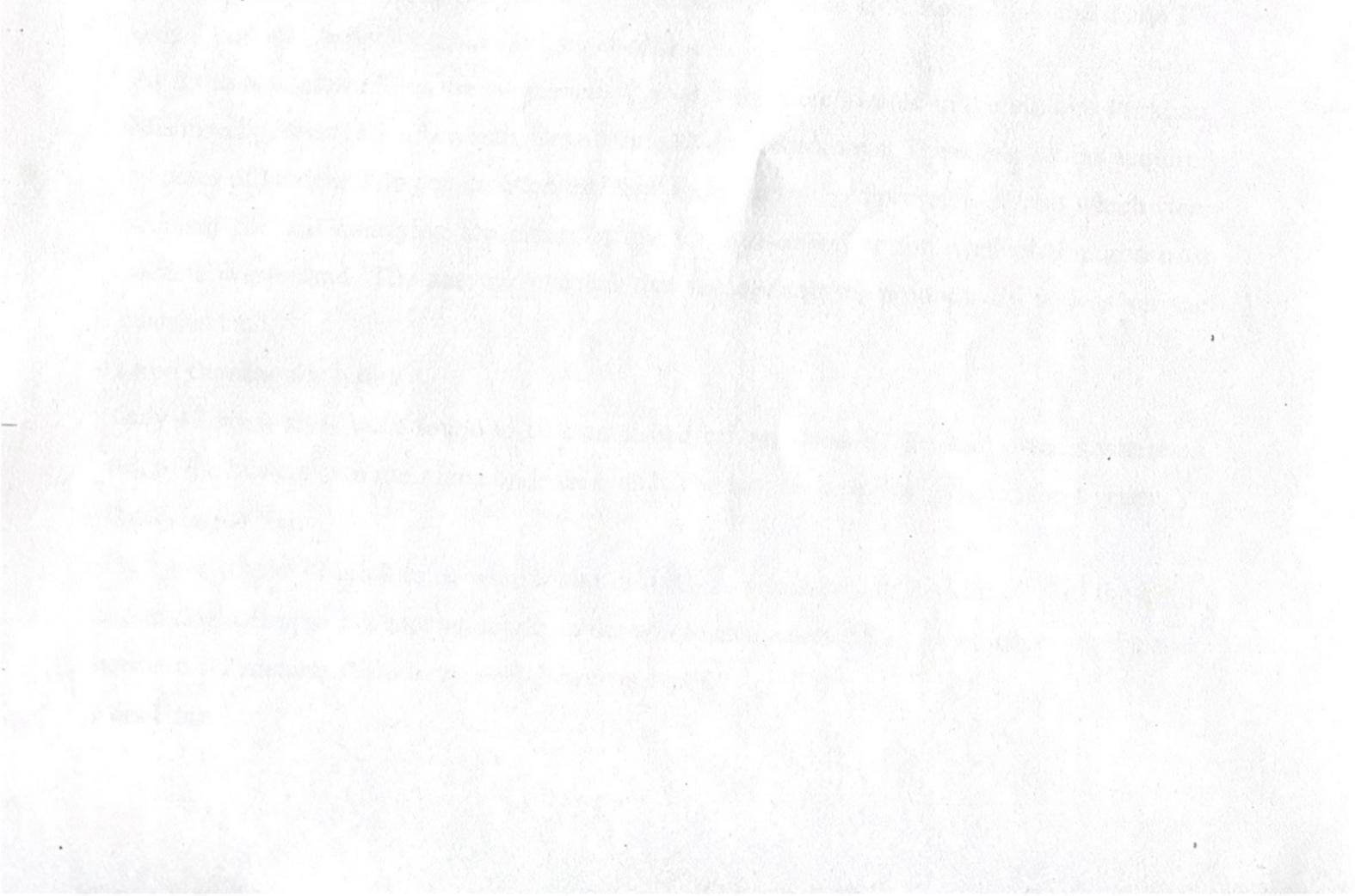
Project Report (SEED Grant)

ENVIRONMENTAL IMPACTS OF BRICK KILNS IN AND AROUND JAMMU CITY

SUBMITTED BY

16

DR. Md. SarfarazAsgher Associate Professor Department of Geography Faculty of Science University of Jammu



This is to submit before your goodself that Rs. 100,000/- has been sanctioned vide letter No. RUSAJU/2/2019-20/36/3888-89 dated 21.11.2019. Since due to lockdown it was difficult to carry extensive field work so Rs. 32,000/ had been re-appropriated from travel to Contingency for the purchase of books.

A detailed field study has been conducted for the purpose. The study area has been surveyed and visited time to time to collect the relevant information. The whole study area has been divided into four zones . To start the work a base map has been prepared and all the brick kilns lying within each zone has been mapped. The survey was conducted by hiring services. A total of 88 working brick kilns were found in the study area with working as well as in abandoned condition. Two separate questionnaire were prepared, one for the brick kiln owners and other for the households residing near the brick kilns. On the basis of the questionnaire the data and observation were recorded. Both the abandoned and working brick kilns were mapped for detail analysis.

The study revealed that 12 bricks were found in Zone I within the distance of 15 kms, Zone-II 28 brick kilns (16 to 20 kms), 26 brick kilns in Zone III- 21-25 kms and 22 brick kilns in Zone-IV (26 to 30 kms).

Abandoned Brick Kilns

Zone I reported of having 2 kilns abandoned, likewise Zone II-3, Zone III-4 and Zone IVonly 1 kiln was in not found in working condition.

As for as abandoned kilns are concerned 10 brick kilns were located in the villages Purkhoo, Mishriwala, BawaTalab, Dayaran, Raya Morh, DadayalBrahmana. These brick kilns acquired 50 acres of land for kiln construction and land for quarrying. At present the land which were acquired for soil quarrying are either in use for agriculture or for residential purpose or became waste land. The survey revealed that the agriculture productivity is less on the quarried land.

Land Owning for Kilns

Only 43 brick kilns were found to be established by own land by the kiln owners where as rest of the owners own their land on leased land. The land were initially leased for 4 years. **Querying of Soil**

Thus as a whole 78 brick kilns were found in working condition. In Zone I, 60% of the kilns use to dug soil upto 1-2 meters depth. In the whole study area 55.12 % of kilns dug the soil between 1-2 meters, 38.46 between 2-3 meters depth.

Fuel Used

The fuel consumption vary between 60 to 80 tons in different kilns. Around 44brick kilns in all the zones consumes between 60 to 70 tons, 22 kilns consumes- 50 to 60 tons, and 10 kilns consumption pattern is more than 80 tons. The survey revealed that the owners are using the imported coal from USA. Very few kilns reported the coal used from own country.

Amount of Waste Generation

Waste generated in the brick kiln in the form of broken bricks, dust, heaps of unburned fuel, wood dust, flyash are the big problem, which has negative impact on the environment. The survey revealed that tons of waste are being generated after every rotation of burning. 29 brick kilns use to generate 20 to 40 tons of waste, 48 kilns generates 50 to 70 tons of waste in the kiln area.

Height of the Chimney

Since the height of the kilns plays a vital role for the pollution so it should be standardized according to the rule of pollution board. In the study area all the brick kilns were found above 100 feet, whereas 35 kilns were having between the heights of 125 to 150 feet.

Workers working in the Brick kilns

As a whole each brick kilns needs large number worker from the process of construction of the kiln, to querying of soil, molding of soil and backing of the soil. So generally more than 100 workers at a time is needed. During the survey it was found that maximum of the kiln i.e.

70 in number where between (100 to 150) workers were found working at a time.

Impact of querying on agricultural productivity

During the survey information were also taken related to the production and productivity both from the un-queried and queried land. The study revealed that the productivity was far less in the queried land and more fertilizers were used to get desired yields. Thus in a long run the soils loses its fertility characteristics.

Annual waste generation

During the survey it was observed that as a whole all the 78 brick kilns generates about 1,235 tons of waste, which has further aggravated the problem of their dumping.

Water Logging Problem

Since the raw material for manufacturing good bricks are the good soil. So soil cant be carried out from long distance. Thus around the brick kilns it was found that the agricultural land were converted to 3 to 4 feet ditches for soil querying. These low lying queried land are facing the water logging problem which further aggravated the environmental problem for the residents as these water logged area became the breeding ground for pests and has negative impact on their health.

Respondents Perception and Response residing nearby villages

The perception of the respondents were recorded by the questionnaire interview method. As a whole only 11.36 % were benefited economically from the brick kilns, 34.84% were reported the environmental impacts. Thus 49.9 % respondents were happy due to the establishment of brick kilns in their area whereas 45.45 % were unhappy. About 73.48 % respondents were not willing to have further brick kilns in their area and only 26.51 % were willing to have more kilns in their area. Only those respondents were willing who are either economically benefitted or who leased out their land for querying of soil in their agricultural land. The survey further revealed that about 31.06 % of the respondent near the kiln leased out their land for soil querying. Because of the establishment of the kiln the nearby residents also reported to have confronted with the diseases like respiratory problem, skin diseases, heat stroke etc.

Details of Expenditure

Sanctioned Amount- Rs. 100, 000/-Rs 32,000 has been re-appropriated from Travel to Contingency for purchase of books.

Funds under various head

Consumables- Rs.15, 000 Contingency Rs.20, 000 Travel- Rs.40, 000/-Any Other (Hiring) Rs. 25, 000/-

Actual Expenditure

Books- 32000/-Stationary-32,626/-+975 TA/DA-7,750/-Hiring services-24,544/-Total- 97,895/- **Balance** Amount

Rs.1399

Rs.250/-Rs.456 Total-2,105/---

0

Dr.Md. Sarfaraz Asgher Associate Professor Department of Geography University of Jammu

FINANCIAL APPROVAL FOR SEED GRANT ASSISTANCE TO ASSISTANT PROFESSORS FOR FORMULATION OF RESEARCH PROJECT PROPOSALS UNDER RUSA 2.0

NAME OF THE FACULTY

Dr. Sarfaraz Asghar

DEPARTMENT

Geography

Sanction is hereby accorded for the financial assistance for formulation of research Proposals under RUSA 2.0 as per details given hereunder:-

S.No	Item	Amount
1.	Consumables	Rs.15000/-
2.	Travel (Domestic & Field)	Rs.40000/-
3.	Contingency	Rs.20000/-
	Any other Head	

4. Hiring services	Rs.25000/-
	and there is a second state of the
Total	Rs.100000/-

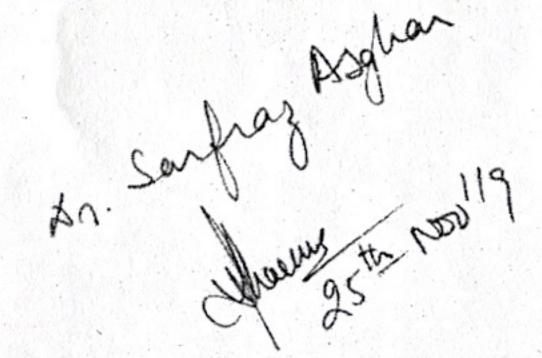
You are required to meet the said expenditure as per university norms, GFR-2017 & guidelines issued vide No. RUSAJU/2019-20/36/716-766 dated 16.08.2019.

DEPUTY REGISTRAR (RUSA)

No: RUSAJU/2/2019-20/36/3-8:88-89 Date: 21-11-2019 Copy to:

Copy to:

- 2. The concerned is requested to kindly submit the bills after observing all codal formalities and norms under the budget head P03 Expenditure on Capital Account, R-11 Research & Innovation





UNIVERSITY OF JAMMU No. RUSAJU/2/2020-21/36/3692-93 Dated 29-12-2020



Dr. Mohd. Sarfaraz Asgher Department of Geography, University of Jammu, Jammu.

Sir,

This is in reference to your letter No.PGD/Geog/4129 dated 11.11.2020 regarding re-appropriation of the unspent amount under head "Travel" to "Contingency" for the purchase of books under RUSA 2.0. In this connection, it is to inform that a meeting was convened on 02.12.2020 under the Convenorship of Hon'ble Vice-Chancellor. As resolved, your proposal has met the approval of the Competent Authority.

This is for your kind information and further necessary action please.

Thanking you,

Yours faithfully,

DEPUTY REGISTRAR (RUSA) 29/12/2020

Copy to:-Head, Department of Geography

RESPONSE SHEET FOR BRICK KILN OWNERS

		ZONEI			
S.NO	DISTANCE (KM)	NAME	BRAND	VILLAGE	ROAD
1	13	SHIV SHANKAR BRICK KILN (ABANDONED)	SSK	PURKHOO	AKHNOOR ROAD
2	14	JAI RAJA MANDLIK BRICK KILN	RBI	PURKHOO	AKHNOOR ROAD
3	13	NAND BRICK KILN	NBK	PURKHOO	AKHNOOR ROAD
4	15	SHIV SHAKTI BRICK KILN	SSK	NAGBANI	AKHNOOR ROAD
5	15	TRISHUL BRICK KILN	ТМК	MISHRIWALA	AKHNOOR ROAD
6	14	J G K BRICKS	JGK	MUTHI	AKHNOOR ROAD
7	14	OM BRICKS INDUSTRIES	OM	MISHRIWALA	AKHNOOR ROAD
8	14		an a		AKHNOOR ROAD
9	12	BHRIGU KILN	ВКЈ	DOMANA	AKHNOOR ROAD
10	11	KAVI KILN	VK	DOMANA	AKHNOOR ROAD
11	11	BHARAT EARTH PROJECT	BEP	DOMANA	AKHNOOR ROAD
12	15	JAI BHAGWATI KILN	BBK	MISHRIWALA	AKHNOOR ROAD

ZO	NE II	I have a series of the series	and march of the		
1	16	SUBRAT BRICK KILN	OM	MISHRIWALA	AKHNOOR ROAD
2	17	SHARMA KILN	SKD	DARAYAN	AKHNOOR ROAD
3	18	OMP BRICK KILN	OMP	DARAYAN	AKHNOOR ROAD
4	19	SHARDA BRICK KILN	JKD	DARAYAN	AKHNOOR ROAD
5	20	SHARMA BRICK KILN	MLK	DARAYAN	AKHNOOR ROAD
6	19	and the second provide the second	TKG	DARAYAN	AKHNOOR ROAD
7	16	KAILASH KILN KANGRAIL	ККК	KANGRAIL	AKHNOOR ROAD
8	20	BALWANT SINGH KILN	RSK	RAKH BARN	AKHNOOR ROAD
9	18	SHARMA KILN DARAYAN	SKD	DARAYAN	AKHNOOR ROAD
10	19	NORTHERN KILN	NK	KANGRAIL	AKHNOOR ROAD
11	20	TIRLOK SINGH KILN	TSK	KOTLI ARJUN SINGH	R S PURA ROAD
12	20	ZIMINDARA BRICK KILN INDUSTRY	ZBI	BADYAL	R S PURA ROAD
13	16	MAHALAKSHMI BRICK KILN	MLK	DAYARAN	AKHNOOR ROAD
14	17	SHAT SHAH BRICK KILN INDUSTRY	TKG	DAYARAN	AKHNOOR ROAD

15	16	MAHAJAN BRICK KILN	МВК	DAYARAN	AKHNOOR ROAD
16	16	CHOUDHARY BRCK KILN (ABD.)	СНК	BAWA TALAB	AKHNOOR ROAD
17	17	SALAR AND AND AND AND A SALAR AND A SA	СНК	The state of the s	AKHNOOR ROAD
18	20	TRISHUL B. K.	ТВК	RAKH BARN	AKHNOOR ROAD
19	19	CAPTAIN OMKAR BRICK KILN	ОКВ	BARN PATTA	MARJALI ROAD
20	18	NEELAM SINGH BRICK INDUSTRY	ΡΑΤΤΑ	PATTA	MARJALI ROAD
21	20	LAKSHMI BRICK KILN	LBK	MARJALI	MARJALI ROAD
22	20	M/S DURGA BRICK KILN	DKG	DHARAMB KHU	MARJALI ROAD
23	19	JEWA SINGH BRICK KILN	JS	GHUMPAL	AKHNOOR ROAD
24	19	JAGDAMBA BRICK INDUSTRY	JS	GHUMPAL	AKHNOOR ROAD
25	17	NIRMAN ADYOG BRICK KILN	OM	SHIMLA WALA	AKHNOOR ROAD
26	18	NIRMAN ADYOG BRICK KILN	OM	BAWA TALAB	AKHNOOR ROAD
27	18	KALKA BRICK KILN	КВК	BAWA TALAB	AKHNOOR ROAD
28	19	M/S RADHA KRISHAN BRICK KILN	СНК	BAWA TALAB	AKHNOOR ROAD

ZO	NE II		h se vites	· · · · · · · · · · · · · · · · · · ·	
1	24	KRSIHNA BRICK INDUSTRY	JBK	BADYAL BRAHMNA	BADYAL BRAHMNA ROAD
2	22	GURUMUKH SINGH BRICK KILN	GSK	BADYAL BRAHMNA	BADYAL BRAHMNA ROAD
3	24	BANARSI DAS SAT BRICK KILN	BS	BADYAL BRAHMNA	BADYAL BRAHMNA ROAD
4	24	KALA BRICK KILN	KVK	BADYAL BRAHMNA	BADYAL BRAHMNA ROAD
5	24	M/S NEW GURDAYAL BRICK KILN	NGK	BADYAL BRAHMNA	BADYAL BRAHMNA ROAD
6	25	GURDAYAL BRICK KILN	GHK	BADILA	BADYAL BRAHMNA ROAD
7	23		SBIB		BADYAL BRAHMNA ROAD
8	23		ZBI	BADYAL	BADYAL BRAHMNA ROAD
° 9	25		JBK	NADI KHEPAR	DASOLE ROAD
9 10	S 10 10 1	DICK KILN	СВК	PATLI MORH	NH1
10	12		ABK	RAYA MORH	NH1
12	-	en de la sublemente de la companya d	MBK	RAYA MORH	NH1
12			OMP		NH1
14	11.0		JBK	MARHOON	NH1
15			UBK	KARYAL BRAHMNA	NH1
16	25	SANJEEV BRICK KILN	RP	ЈАКН	JAKH ROAD
17	24	SIKANDER ENTERPRISES	КВ	SARORE	SARORE ROAD
18	23	ANKUR KUMAR BRICK KILN	AK	SARORE	SARORE ROAD
19	25		LPK	RAKH BARN	AKHNOOR ROAD
20	22	NEW KRISHNA BRICK KILN	ККВ	RAKH BARN	MARJALI ROAD
-	20	TRISHUL B. K.	ТВК	RAKH BARN	MARJALI ROAD
21	1000	RAYA BRICK KILN	RBK	BARN PATTA	MARJALI ROAD

23	22	MOHINDER BRICK KILN	МКВ	BARN PATTA	MARJALI ROAD
24		BHAGWAT BRICK KILN	BBK	BATERAH	AKHNOOR ROAD
25	23	SHRI GANESH BRICK KILN		DHARAMB KHU	AKHNOOR ROAD
26		RAJA MANDLIK BRICK KILN	RMK	MARJALI	AKHNOOR ROAD

ZON	IE IV				
1	26	M/S MAHAJAN BRICK KILN	MBIB	BADYAL BRAHMNA	BADYAL BRAHMNA ROAD
2	26	JBK	JBK	NADI KHEPAR	DASOLE ROAD
3	26	M/S OM BRICK KILN	DDA	JAKH	JAKH ROAD
4	27	R K BRICK KILN	RKB	BANDRALI	ANANDPUR ROAD
5	28	NAND KISHORE BRICK KILN	NK	SOUNGLI	ANANDPUR ROAD
6	28	KRISHAN KUMAR BRICK KILN	ККК	SOUNGLI	ANANDPUR ROAD
7	30	R N BRICK INDUSTRY	RN	DABUJ KAKA	VIJAYPUR-BHAGATPUR LINK ROAD
8	26	M K BRICK KILN	МКК	DABUJ KAKA	VIJAYPUR-BHAGATPUR LINK ROAD
9	30	MADAN KISHORE BRICK KILN	МКК	BHAGATPUR	VIJAYPUR-BHAGATPUR LINK ROAD
10	27	N D BRICK KILN	ND	BHAGATPUR	VIJAYPUR-BHAGATPUR LINK ROAD
11	27	CHOUDHARY BRICK KILN	СВК	BHAGATPUR	VIJAYPUR-BHAGATPUR LINK ROAD
12	27	R F BRICK KILN	RF	BHAGATPUR	VIJAYPUR-BHAGATPUR LINK ROAD
13	26	R K BRICK KILN		PATLI MORH	BADOI ROAD
14	28		NK	BADOI	BADOI ROAD
15	27	CLEVES BRICK INDUSTRY	CBI	BADOI	BADOI ROAD
16	29		RCM	RAKH BADOI	BADOI ROAD
17	29	S G ENTERPRISES	OM	JAKH	BADOI ROAD
18	27	I Q BRICK INDUSTRY	10	JAKH	BADOI ROAD
19	26	NAJWAL BRICK AND TILE	JK	NAJWAL	BADOI ROAD
20	26	AMAR BRICK AND TILES	JK	NAGBANI	BADOI ROAD
21	26	TILAK RAJ GUPTA BRICK	TRG	KHERI	BADOI ROAD
22	27	SEELAM BRICK INDUSTRY	JK	KHERI	BADOI ROAD

DISTRIBUTION OF ABANDONED BRICK KILN IN VILLAGES

NO. OF	VILLAGES IN WHICH THEY ARE LOCATED	TOTAL	PRESENT LAND UTILISATION
ABANDONED	and the second secon	AREA	
BRICKS	and the second	(IN	

		ACRE)	
10	PURKHOO, MISHRIWALA, BAWA TALAB, DAYARAN, RAYA MORH, BADAYAL BRAHMNA	50	AGRICULTURAL LAND, OTHERS, RESIDENT AREA, WASTE LAND

ZONE WISE DISTRIBUTION OF BRICK KILN ACCORDING TO OWNERSHIP OF LAND

ZONES	NO. OF BRICK KILNS	WORKING	ABANDONED	OWNLAND	LEASED	PERIOD OF LEASE
ZONE I (0-15 KM)	12 (13.6%)	10	2	3 (33.3)	7 (66.67)	>4 YRS
ZONE II (16-20 KM)	28 (31.8%)	25	3	11 (44	14 (66)	>4 YRS
ZONE III (21- 25 KM)	26 (29.5%)	22	4	15 (68.18)	6 (31.82)	>4 YRS
ZONE IV (26- 30 KM)	22 (25%)	21	1	14 (66.67)	7 (33.33)	>4 YRS

ZONE WISE DISTRIBUTION OF BRICK KILN ACCORDING TO DEPTH OF SOIL DUG UP DURING A ROTATION IN METRES

ZONES	NO. OF WORKING BRICK KILNS	<1 mts	1-2 mts	2-3 mts	>3 mts
ZONE I (0-15 KM)	10	1 (10)	6 (60)	3 (30)	0
ZONE II (16-20 KM)	25	1 (4)	9 (36)	14 (56)	1 (4)
ZONE III (21- 25 KM)	22	0	17 (70.27)	4 (18.18)	1 (4.5)
ZONE IV (26- 30 KM)	21	1 (4.7)	11 (52.38)	9 (42.85)	0
TOTAL	78	3 (3.84)	43 (55.12)	30 (38.46)	2 (2.56)

ZONE WISE DISTRIBUTION OF ACCORDING TO PRODUCTION OF BRICKS

ZONES	NO. OF WORKING BRICK KILNS	<20 lacs	20-40 lacs	40- 60 lacs	>60 lacs
ZONE I (0-15 KM)	10	2 (20)	7 (70)	1 (10)	0
ZONE II (16- 20 KM)	25	6 (24)	18 (72)	1 (4)	0
ZONE III (21- 25 KM)	22	11 (50)	11 (50)	0	0
ZONE IV (26- 30 KM)	21	2 (9.5)	18 (85.7)	1 (4.7)	0
TOTAL	78	21 (26.9)	54 (69.23)	3 (3.8)	0

ZONEWISE DIDTRIBUTION OF BRICK KIL ACCORDING TO CONSUMPTION OF FUEL

ZONES	LESS THAN 60 TONS	60-70 TONS	70-80 TONS	MORE THAN 80 TONS
ZONE I (0-15 KM)	1 (10)	8 (80)	1 (10)	0
ZONE II (16-20 KM)	6 (24)	12 (48)	1 (4)	6 (24)
ZONE III (21-25 KM)	8(36.36)	13 (59.09)	0	1 (4.5)
ZONE IV (26-30 KM)	7 (33.33)	11 (52.38)	0	3 (14.28)
TOTAL	22	44	2	10

ZONEWISE DISTRIBUTION OF BRICK KILN ACCORDING TO AMOUNT OF WASTE GENERATION

ZONES	LESS THAN 20 TONS	20-40 TONS	MORE THAN 40 TONS	OTHERS (NOT RESPONDED)
ZONE I (0-15 KM)	7 (70)	2 (20)	0	1 (10)
ZONE II (16-20 KM)	17 (68)	8 (32)	0	0
ZONE III (21-25 KM)	15(68.18)	7 (31.81)	0	0
ZONE IV (26-30 KM)	9 (42.85)	12 (57.14)	0	0
TOTAL	48	29	0	1

ZONEWISE DISTRIBUTION OF BRICK KILN ACCORDING TO HEIGHT OF CHIMNEYS

100-125 FT.	125-150 FT.	MORE THAN 150 FT.
2 (20)	6 (60)	2 (20)
22 (88)	3 (12)	0
9 (41)	13 (59)	0
8 (38.1)	13 (61.9)	0
41	35	2
	2 (20) 22 (88) 9 (41) 8 (38.1)	2 (20) 6 (60) 22 (88) 3 (12) 9 (41) 13 (59) 8 (38.1) 13 (61.9)

ZONEWISE DISTRIBUTUION OF BRICK KILNS ACCORDING TO NUMBERS OF WORKERS

and the second	50.100	100-150	150-200
ZONE	50-100		0
ZONE I (0-15 KM)	2 (20)	8 (80)	0
ZONE II (16-20)	1(4)	24 (96)	0
ZONE III (21-25 KM)	0	20 (91)	2 (9)
	1 (4.7)	18 (85.71)	2 (9.5)
ZONE IV (26-30 KM)	1 (4.7)	70	4
TOTAL	4	10	The second se

ZONE WISE PRODUCTION AND ANNUAL WASTE GENERATION OF WORKING BRICK KILNS

ZONES	NO. OF WORKING BRICK KILN	PRODUCTION OF BRICKS (IN LACS)	ANNUAL WASTE GENERATION (IN TONS)
ZONEI	10	255 (15.22)	200 (16.19)
ZONE II	25	600 (35.82)	370 (29.95)
ZONE III	22	260 (15.52)	350 (28.34)
ZONE IV	21	560 (33.43)	315 (25.50)
TOTAL	78	1675	1235

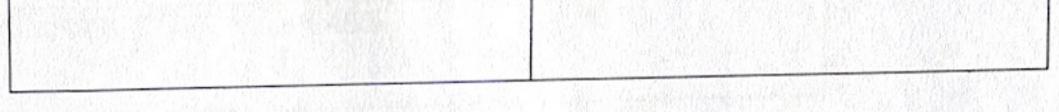
RESPONSE SHEET

IMPACT OF BRICK KILNS ON SOCIETY AND PEOPLE

ECONOMICALLY (A)	ENVIRONMENTALLY (B)	SOCIALLY (C)	BOTH A&B	BOTH B&C	A,B&C	OTHERS	N.R
11.36%	34.84%	2.27%	9.09%	18.18%	13.63%	1.51%	9.09%
		81 (1944) (1 19					

PEOPLE HAVING OWN LAND

Land owners	Landless
Transmiss Of Bridge	
87.12%	12.87%



DISTRIBUTION OF THOSE WHO OWNED LAND

BELOW 8 KANALS	8-16 KANALS	ABOVE 16 KANALS	N.R
53.78%	17.42%	9.84%	18.93%

DISTRIBUTION OF PEOPLE THOSE WHO ARE HAPPY

Нарру	Unhappy	N.R

40.9%	45.45%	10.6%
	A A A A A A A A A A A A A A A A A A A	

TRADITIONAL OCCUPATION OF THE PEOPLE

AGRICULTURE	ZAMIDAR	BOTH AGRICULTURE AND BUSINESS	OTHERS
70.45%	2.27%	1.52%	25.75%

REASON OF CHANGING AGRICULTURE AS TRADITIONAL OCCUPATION & DISTRIBUTION

ECONOMIC REASONS	OTHERS	NO CHANGE
4.54%	4.45%	90.9%

REASONS FOR NOT OPTING AGRICULTURE

LESS RETURNS	OTHERS	N.R
10.60%	2.27%	87.12%

DISTRIBUTION AND TYPE OF AGRICULTURE

SUBSISTANCE ONLY	COMMERCIAL ONLY	BOTH SUBISTANCE AN COMMERCIAL	N.R
	all All angles of the second		

75%	0%	9.1%	15.90%
	The Street of Street		
	REAL COMPANY PROVIDENCE		

DISTRIBUTION OF PEOPLE WHO ARE WILLING FOR HAVING BRICK KILNS .

PEOPLE DON'T WANT HAVE BRICK KILNS
73.48%
and the second with the second s

DISTRIBUTION OF PEOPLE WHO LEASED THEIR LAND FOR QUARRING TO BRICK KILNS

LEASED ATLEAST ONCE	NEVER LEASED
31.06%	68.93%

DISTRIBUTION OF PEOPLE WHO BELIEVE IN CHANGE IN THE QUANTITY OF FERTILIZER

INCREASE	DECREASE	SAME
74.35%	10.25%	15.38%
Aler Marine		

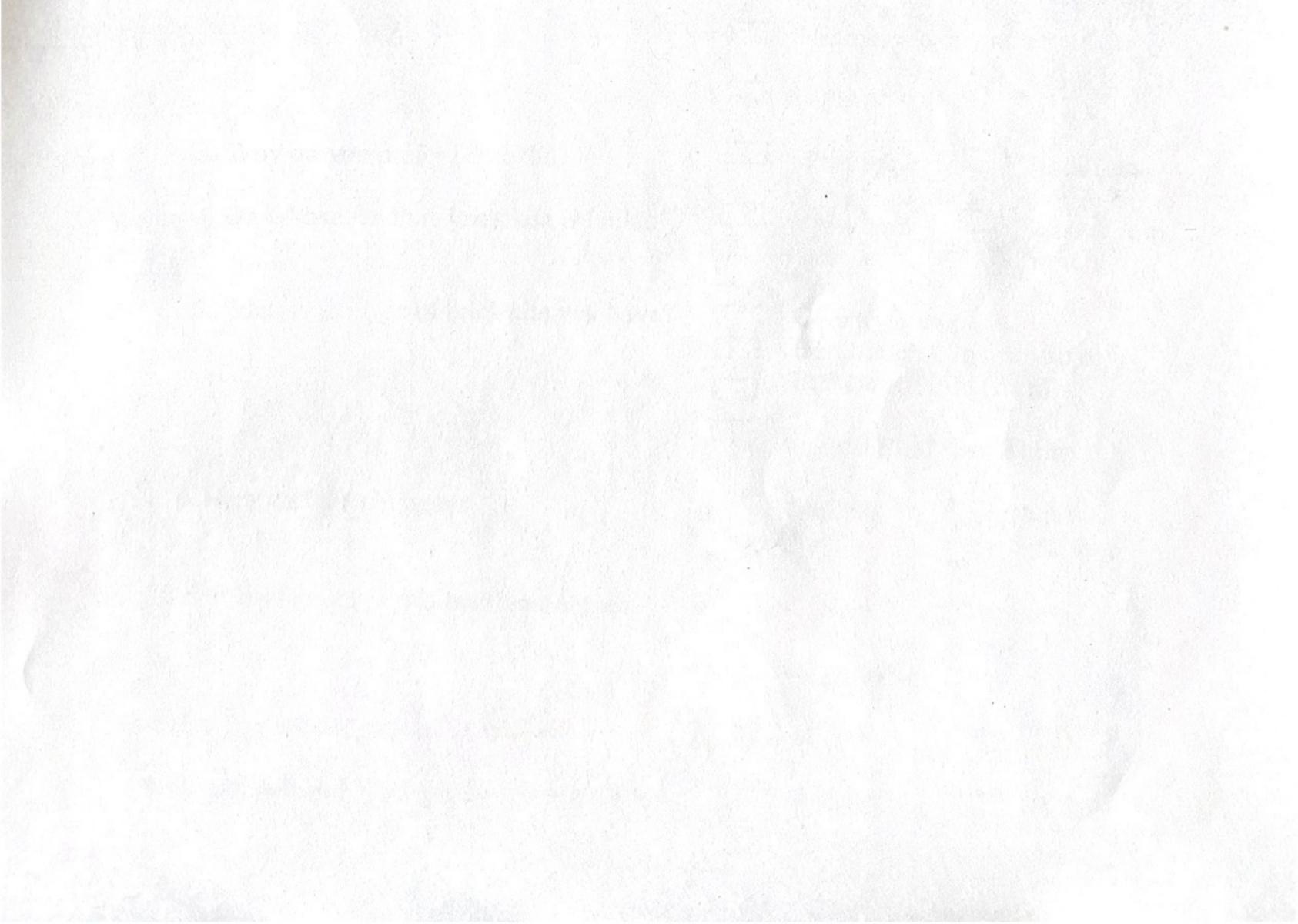
DISTRIBUTION OF PEOPLE FACING DISEASE DUE TO BRICK KILN

DISEASE	PEOPLE AFFECTED (%)
RESPIRATORY (A)	46.21
SKIN DISEASES & RESPIRATORY	6.05

HEAT STROKE & RESPIRATORY	3.79
CANCER, HEART % EYE WEAKNESS	0.76
HEART PROBEM & RESPIRATORY	2.28
EYE SIGHT WEAKNESS & RESPIRATORY	6.05
NO DISEASE	30.31
EYE WEAKNESS & HEART PROBLEM	1.52
HEALTH PROBLEM	0.76
NERVOUS SYSTEM	0.76
TB & ASTHAMA	1.52

PEOPLE PERCEPTION ABOUT BRICK KILN IN OVERALL DEVELOPMENT

RESPONSE	YES ()	NO	Section 2
IN %	45.45	54.55	general SM



Brick Kiln Owners

Personal Information

- 1. Village:
- 2. Name of the interviewee
- 3. Year of the establishment of the brick kiln
- 4. Residence of
- 5. Brand of brick produced
- 6. Distance from the city
- 7. On which road the brick kiln is situated

Questions

- 2. Why have you built brick kiln in this area? Availability of land/ labour

Availability of soil

Others

Nearness to city as a market

5-10

> 15 acres

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이 것 것 같아요. 한 것 같아요. 그는 것 같아요. 집에 집에 집에 집에 들었다. 그는 것 이 것은 말했는 것 것 같아요. 말 ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?		
3. Why do you prefer brick kiln?	Profitable 🖂	Traditional
4. On whose land the brick kiln is built?	Own land	leased from others
5. What is the type of brick kiln you have?	Country clamp Bull trench kiln (m Bull trench kiln (fin Vertical Shaft Brick	xed)
6. Height of the chimneys		10-60 > 80 feet
7. For how long has this land been leased?	2-3 years	3-4
8. Do you have a permit for this kiln?	Yes 🗆	No
9. How much soil is dug up in every rotation?	□ <1 feet □	1-2
	2-3	> 3 feet

10. Soil dug up from land covered by?	Self	C Others
10. Soil is dug up from which area of 11. Soil is kiln?	Same	Other
12. For one brick manufacturing how much soil is needed?	□ > 2 kg. □ 3-4 kg.	2-3
13. What is the capacity per year of this	> 20 lakh	20-40
13. What is the englished of a second	40-60	< 40 lakh
14. Which fuel is used in the kiln?	· 🗀 Coal	Wood Wood
	Others	
15. From where the fuel is coming up?	Assam	Bihar
in an	U.P	Others
16. How much fuel is consumed per rotation?	<pre> < 60 tons 70-80 </pre>	60-70 > 80 tons
17. How much time it takes the baking of bricks?	21-26 days	26-31 days
18. What is the amount of waste generate per rotation?	d - < 20 tons	□ 20-40
19. Is there is any impact of brick kiln in the surrounding?	Yes	□ No
20. If yes, than to which type of commodi	ty? D Land Garden	Agriculture Others
21. How many workers are there in the kil	In? 50-100	100-150
	150-200	□ > 200
22. What is the sex ratio of the workers? N	Male 250	□ > 50
Fe	emale 🖂 < 50	□ > 50
23. To which place most of the workers be	elong? U.P Delhi	Bihar Rajasthan
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日本語を見

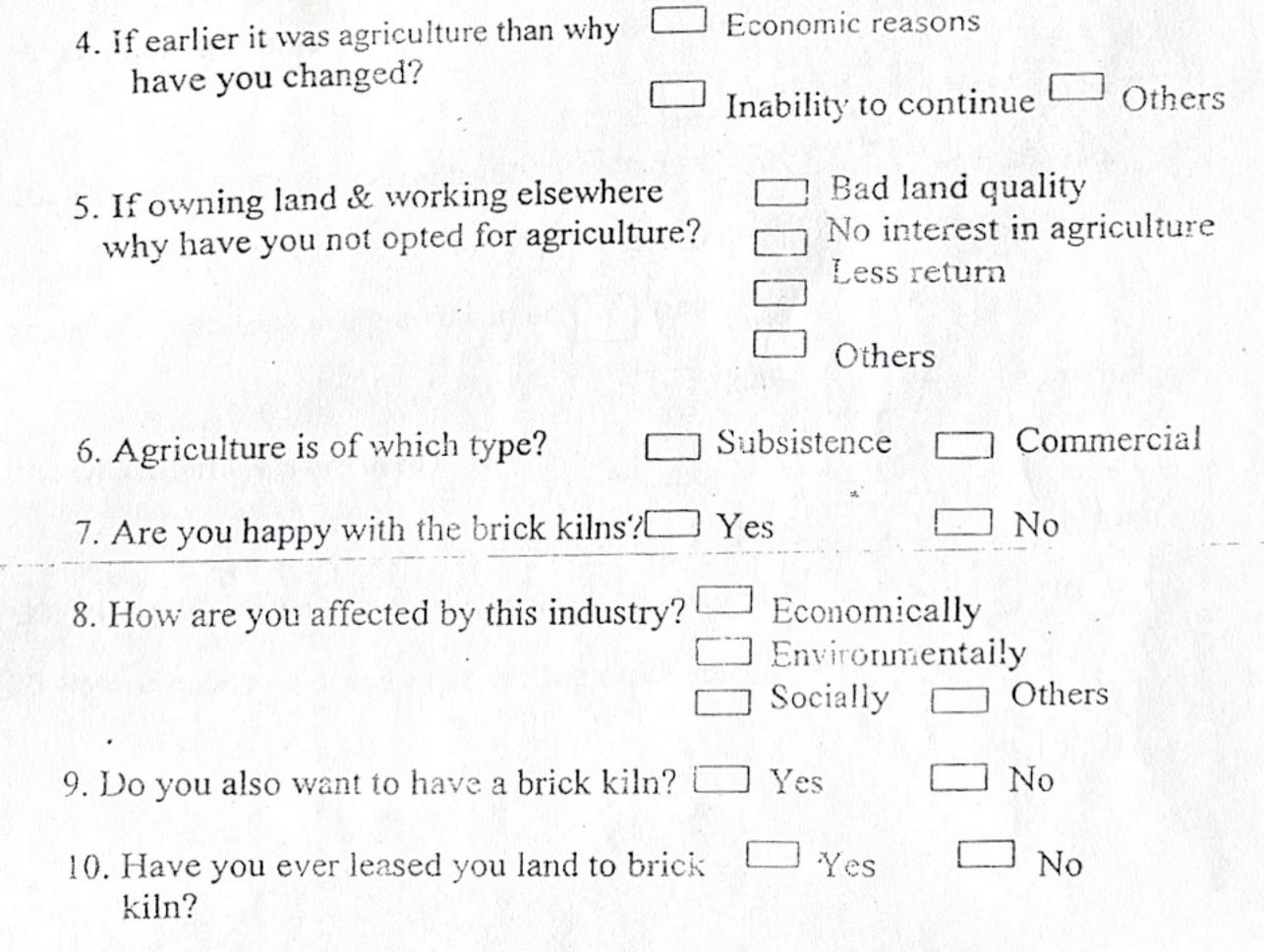
Residents of the Village

Personal Information

- 1. Village
- 2. House hold no.
- 3. Name of the head
- 4. Occupation/ Educational Qualification
- 5. Caste members in the family
- 7. If no, the native state
 - Since when are you staying in the village
- 8. Earning members in the family.

Question

Do you own land?
 If yes, how much?
 What is your traditional occupation?
 Agriculture
 Business
 Zamidar
 Others



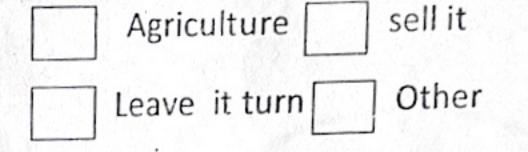
If yes how long _____

How much

At what rate

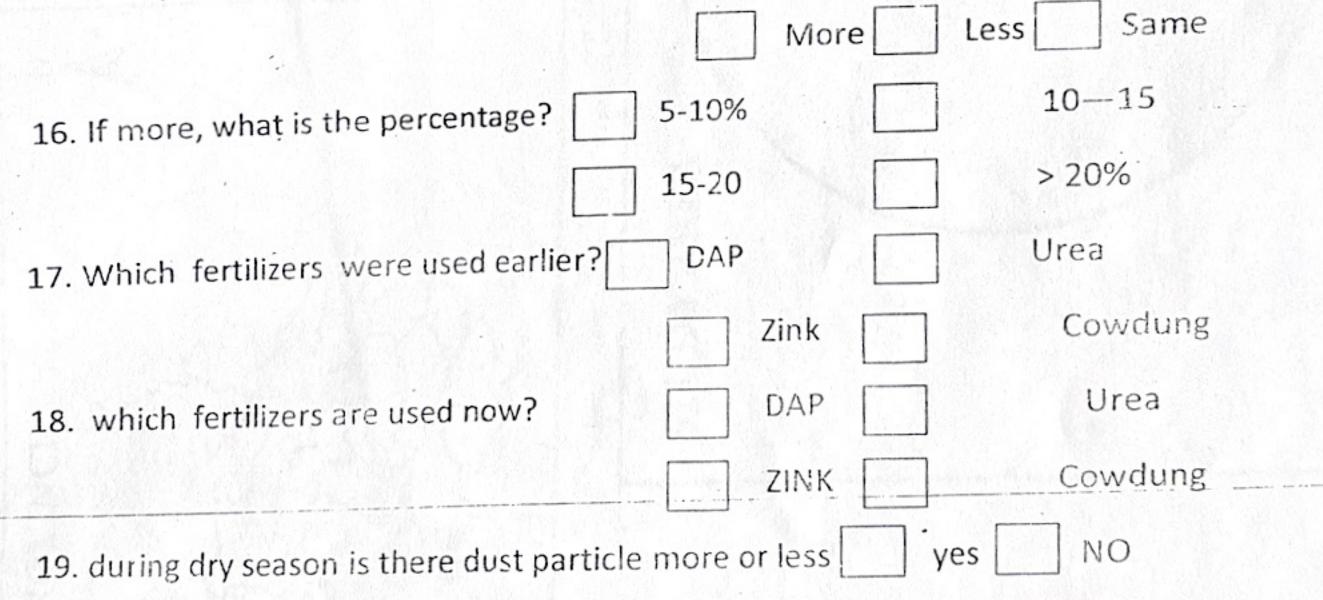
11. What will you do with the land after

Lease is over?

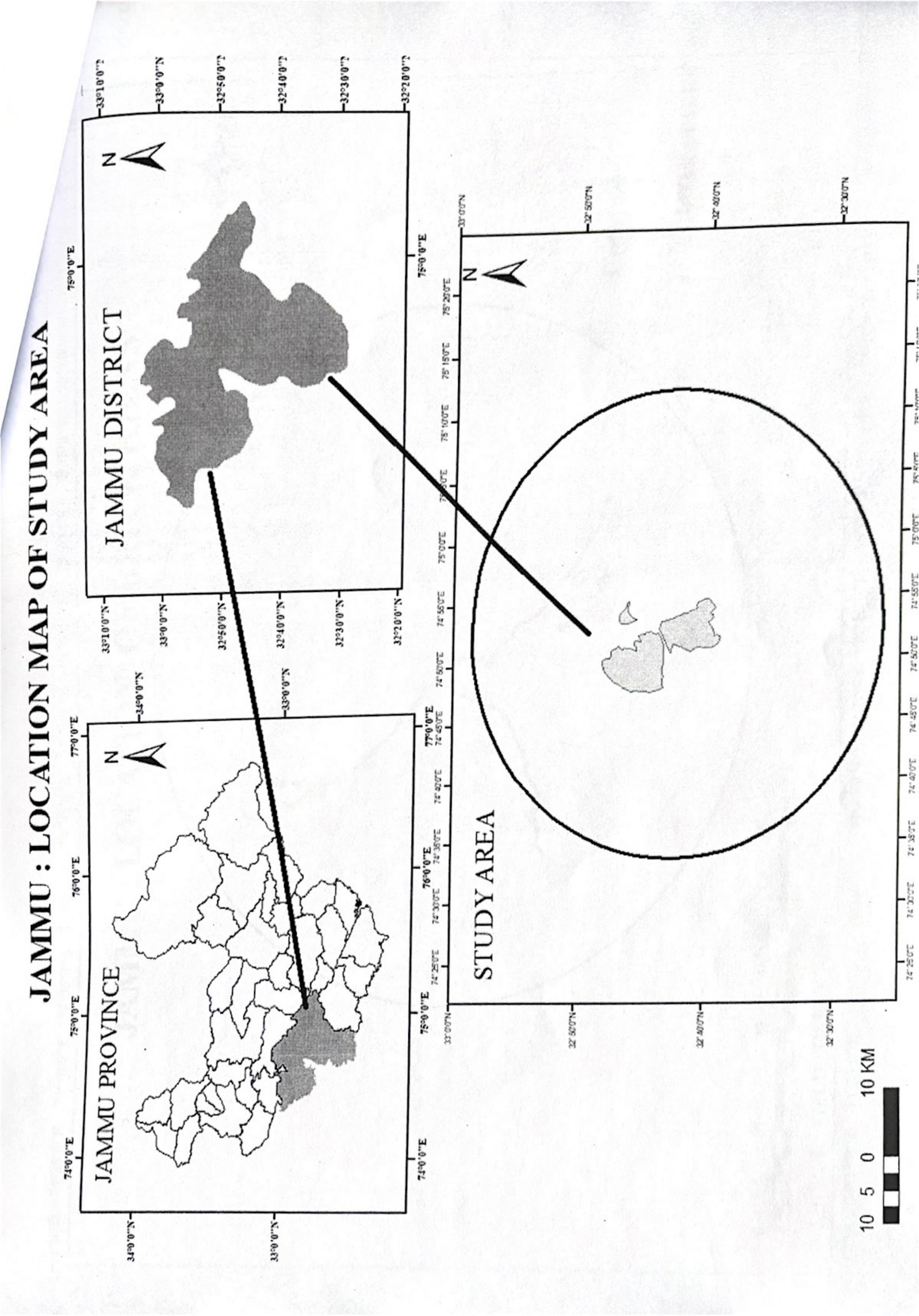


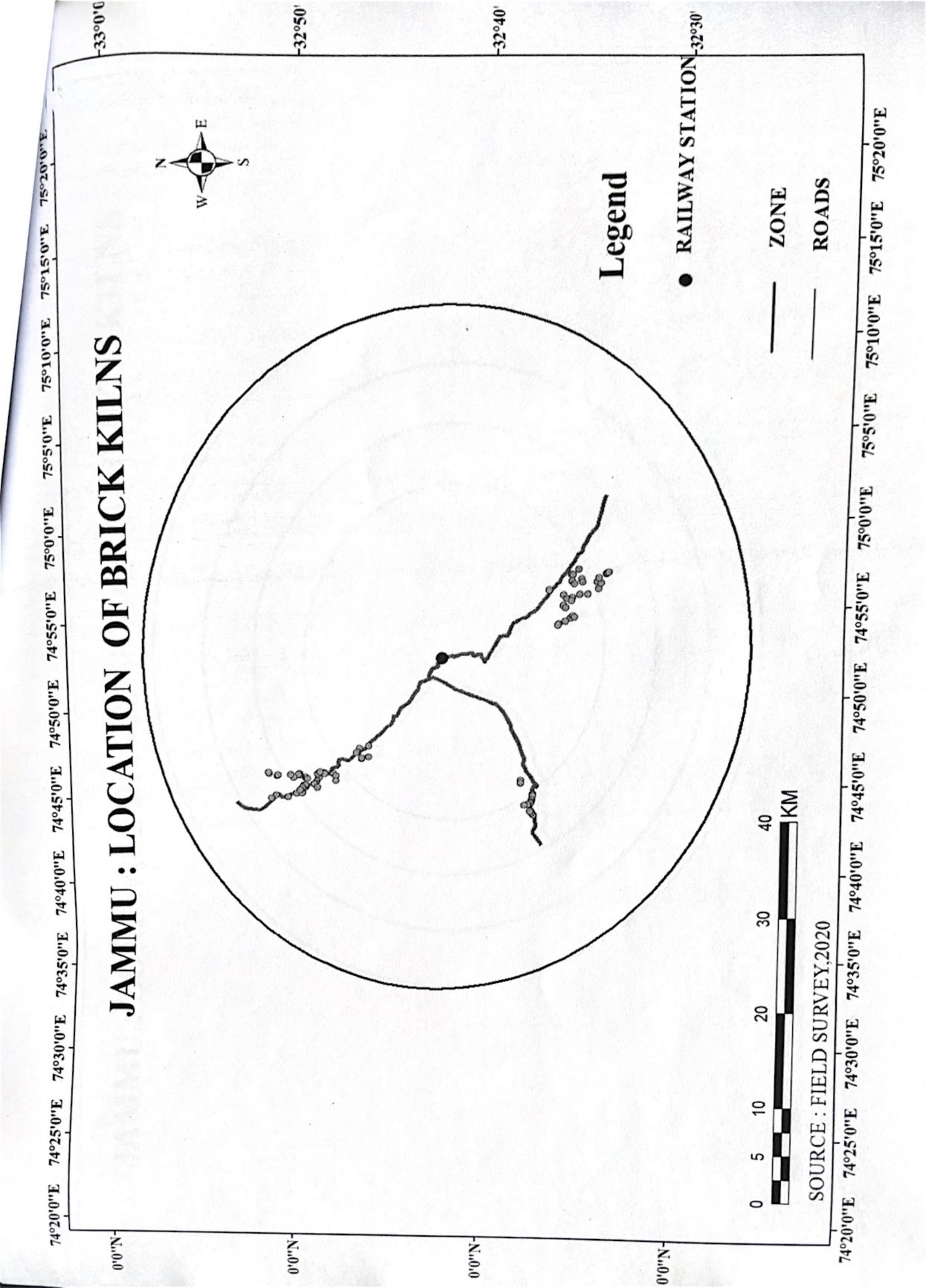
If agriculture	
12. Is the same crop grown after reclamation?	NO
13. If no which crop was grown earlier?	
14. Which crop is grown after reclamation of land?	

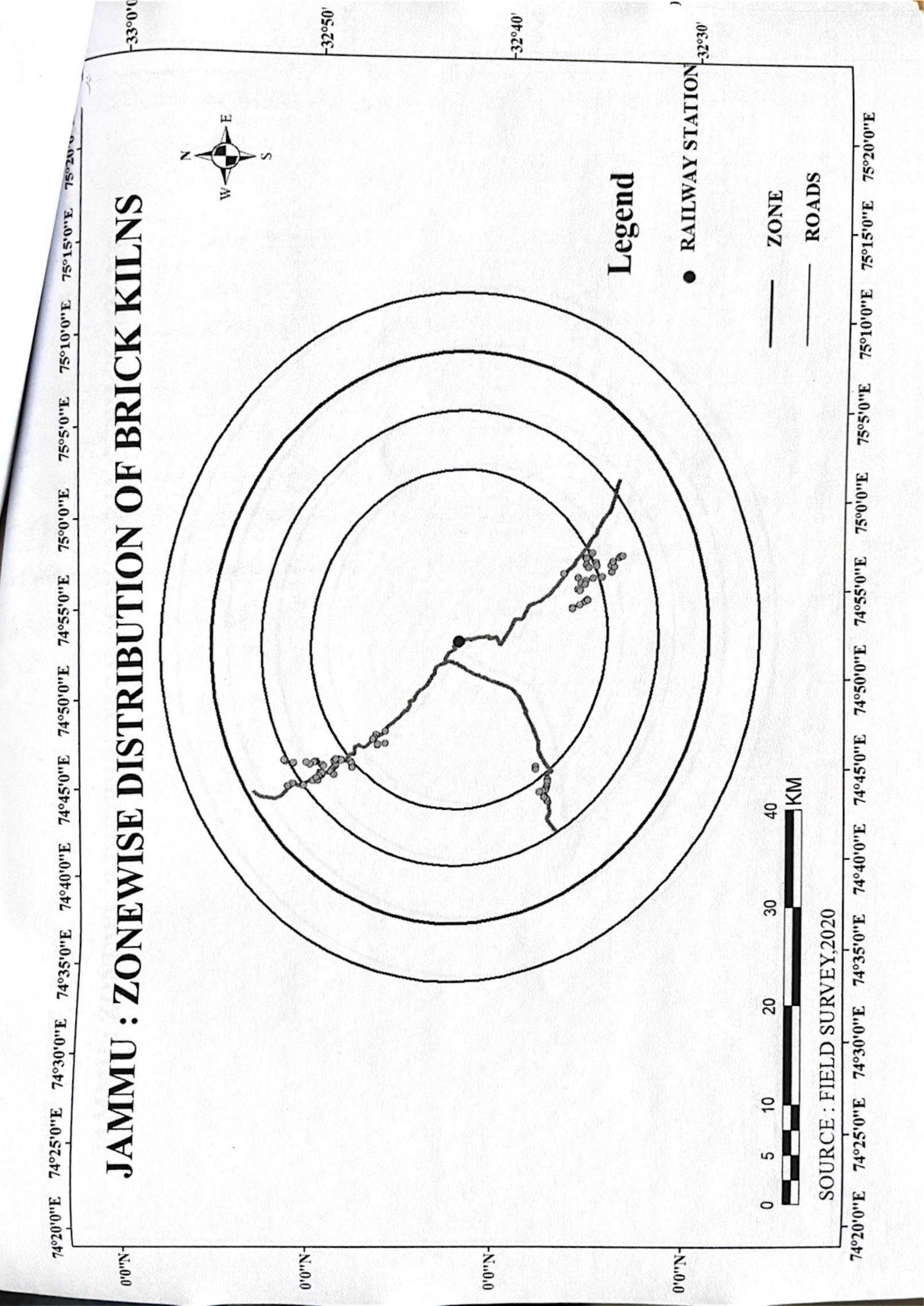
15. The quantity of fertilizer after reclamation of lend is

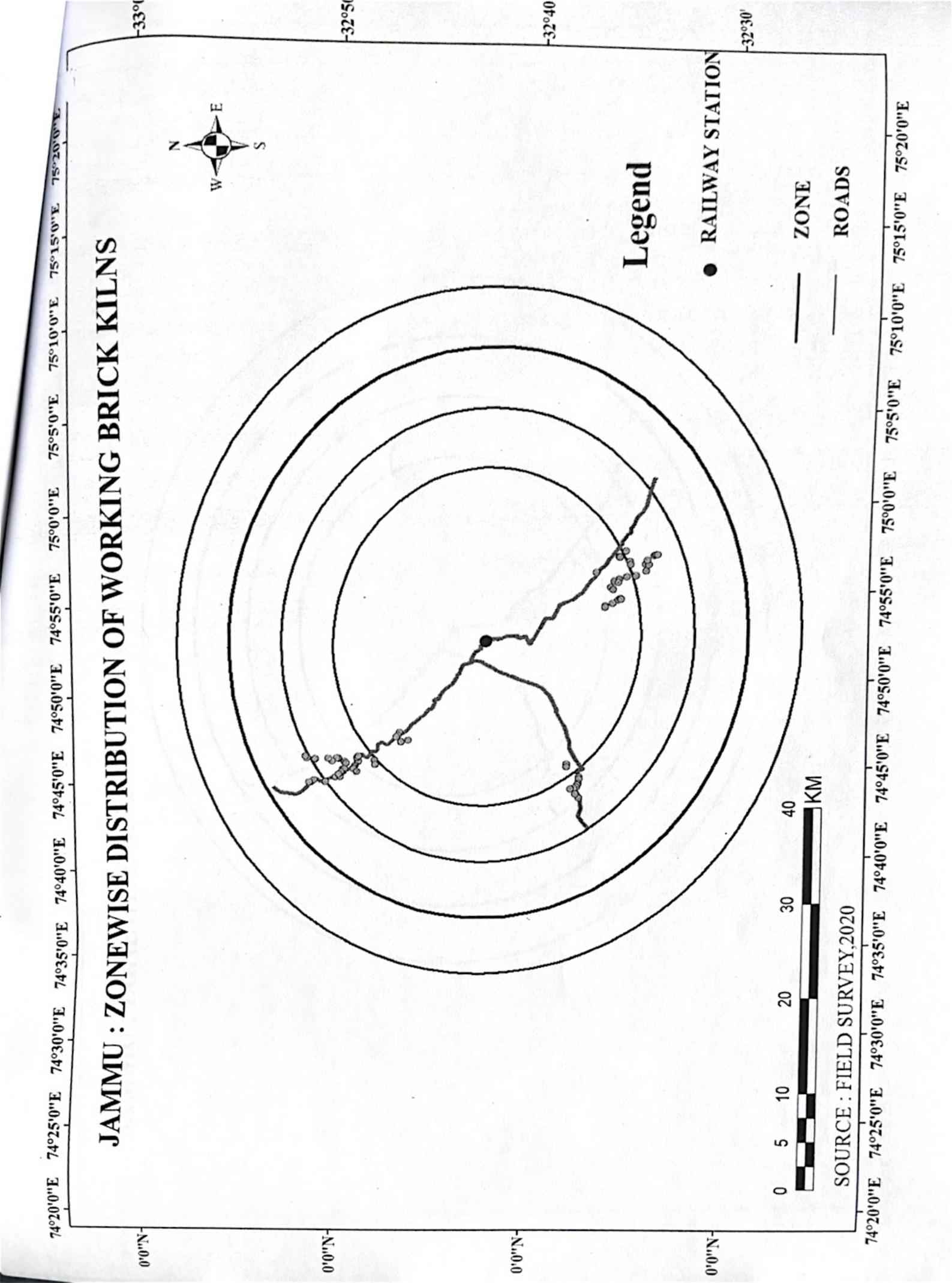


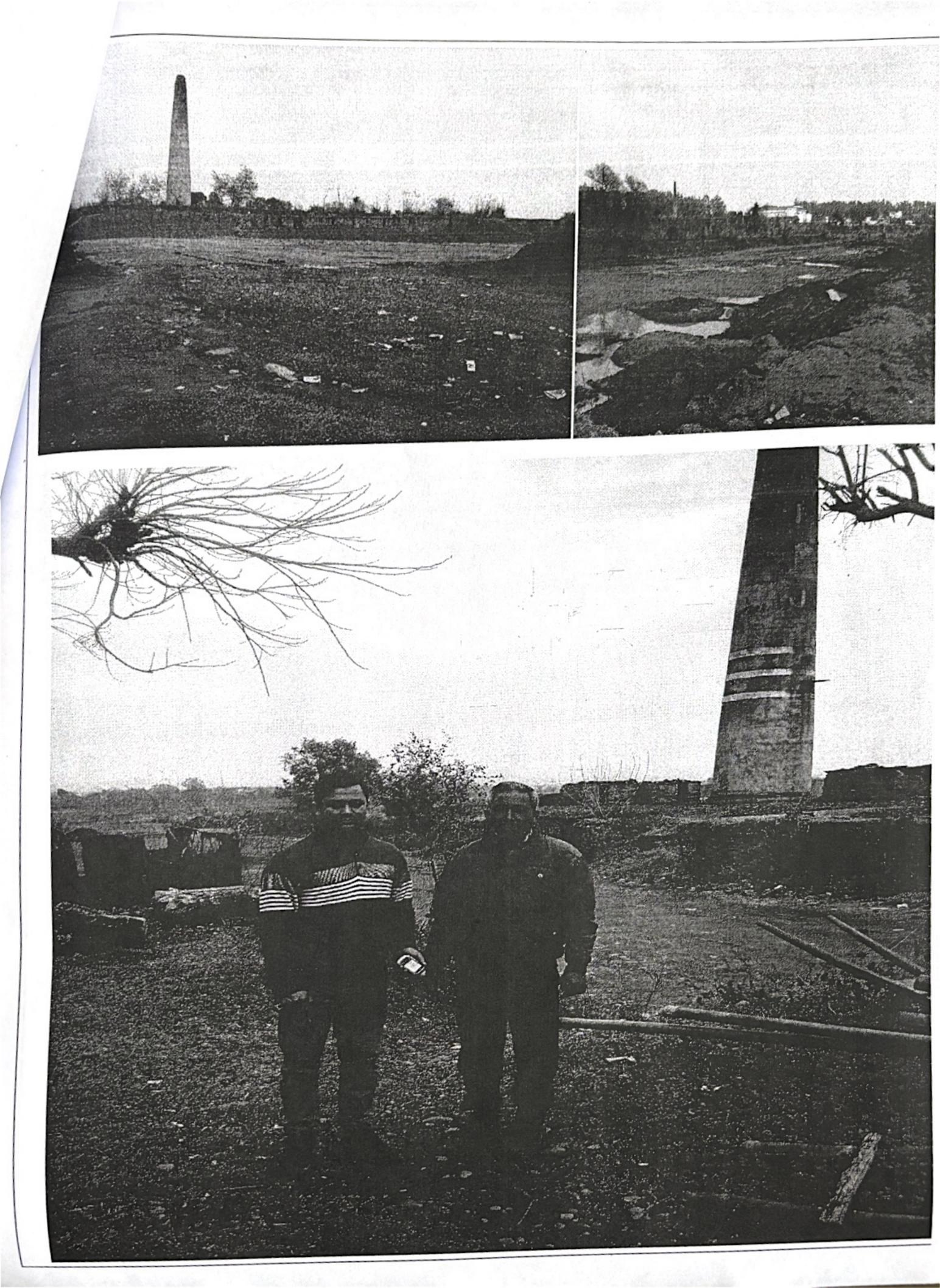
20 Before quarrying of soil what was the productivity













UTILIZATION CERTIFICATE UNIVERSITY Of JAMMU

STATEMENT OF EXPENDITURE IN RESPECT RESEARCH PROJECT UNDER RESEARCH & SEED GRANT " Quality Assurance Fund"

Name of Principal Investigator Dr.Md. Sarfaraz Asgher 1.

Deptt. of Principal Investigator Geography 2.

University/College University of Jammu

Approval Letter No. and Date:RUSAJU/2/20/36/3888-89 Dated-21-11-2019 & re-appropriation vide letter Are RUSAJU 26 No. 3692-93 dated-29/12/2020

Title of the Research Project "Environmental Impacts of Brick Kilns in and Around Jammu City 4. 6. Effective date of starting the project: 20/01/23

: Aug.2019- to.-March 2021 a. Period of Expenditure

b. Details of Expenditure

Sanctioned Amount- Rs. 100, 000/-

Rs 32,340 has been re-appropriated from Travel to Contingency for purchase of books.

Funds under various head	Actual Expenditure	Balance Amount
Consumables- Rs.15, 000	Books- Rs.14,545/-	Rs.455
Contingency Rs.52,340	Stationary-Rs.51,056	Rs. 1284
(After re-appropriation)		
Travel- Rs.7660/-	TA/DA-7,660/-	Rs.Nil
(After re-appropriation)		
Any Other (Hiring) Rs. 25, 000/-	Hiring services-24,544/-	Rs.456
	Total- 97,805/-	Total-2,195

Dr.Md. Sarfaraz Asgher

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(PI)

No. RUSAJU/2024-25/36/401 Dt. 22-10-2024