# CONTENT

CHAPTER-1	<b>COMPENSATORY AFFORESTATION AND</b>
	BIODIVERSITY CONSERVATION PLAN

1.1	Introduction 1-1		
1.2	Compensatory Afforestation	1-1	
	1.2.1 Impacts on Forest	1-2	
	1.2.2 Afforestation	1-2	
1.3	Biodiversity Conservation	1-4	
	1.3.1 Conservation of flora	1-4	
	1.3.2 Conservation of fauna	1-6	
1.4	Sainj Valley Conservation Cell	1-9	
	1.4.1 Activities to be undertaken by SVCC	1-10	
1.5	Environmental Awareness for Conservation	1-12	
1.6	Anti-Poaching Measures	1-13	
1.7	Budget	1-14	
СНА	PTER-2 CATCHMENT AREA TREATMENT PLAN		
2.1	Need for Catchment Area Treatment	2-1	
2.2	Approach For The Study	2-2	
	2.2.1 Data Acquisition	2-3	
	2.2.2 Data Preparation	2-3	
	2.2.3 Output Presentation	2-5	
2.3	Estimation of Soil Loss Using Silt Yield Index (Syi) Method	2-5	
2.4	Watershed Management – Available Techniques	2-7	
2.5	Catchment Area Treatment Measures	2-10	
2.6	Treatment Measures	2-12	
2.7	Cost Estimate	2-14	
СНА	PTER-3 FISHERIES MANAGEMENT PLAN		
3.1	Introduction	3-1	
3.2	Fisheries Status	3-1	
3.3	Impacts on Fisheries	3-5	

	3.3.1 Construction phase	3-5
	3.3.2 Operation phase	3-6
3.4	Management Measures	3-6
	3.4.1 Release of minimum flow	3-6
	3.4.2 Sustenance of Endemic Fisheries	3-7
	3.4.3 Budget	3-8
СНА	PTER-4 PUBLIC HEALTH DELIVERY SYSTEM	
4.1	Introduction	4-1
4.2	Impacts on Public Health	4-1
4.3	Public Health Delivery System	4-2
	4.3.1 control of malaria	4-2
	4.3.2 Development of medical facilities	4-2
4.4	Budget	4-6
СНА	PTER-5 ENVIRONMENTAL MANAGEMENT IN LABOUR CA	MPS
5.1	Introduction	5-1
5.2	Provision of Heating	5-1
5.3	Provision of Water Supply	5-1
5.4		
	Sanitation & Sewage Treatment Facilities	5-1
5.5	Sanitation & Sewage Treatment Facilities Solid Waste Management From Labour Camps	5-1 5-2
5.5 5.6	·	
	Solid Waste Management From Labour Camps	5-2
5.6 5.7	Solid Waste Management From Labour Camps Budget	5-2 5-4
5.6 5.7	Solid Waste Management From Labour Camps Budget Implementing Agency	5-2 5-4
5.6 5.7 <b>CHA</b>	Solid Waste Management From Labour Camps Budget Implementing Agency  PTER-6  MUCK MANAGEMENT PLAN	5-2 5-4 5-4
<ul><li>5.6</li><li>5.7</li><li>CHA</li><li>6.1</li></ul>	Solid Waste Management From Labour Camps Budget Implementing Agency  PTER-6 MUCK MANAGEMENT PLAN Introduction	5-2 5-4 5-4

CHA	PTER-7 RES	STORATION AND LANDSCAPING OF CONSTR	UCTION SITES
7.1	Introductio	n	7-1
7.2	Quarrying	Operations	7-1
7.3	Restoratio	n Plan for Quarry Site and Borrow Area	7-2
7.4	Landscapi	ng and Restoration Plan	7-3
7.5	Budget		7-4
CHA	PTER-8 EN	/IRONMENTAL MANAGEMENT IN ROAD CONS	STRUCTION
8.1	Introductio	n	8-1
8.2	Impacts du	ue to Construction of Roads	8-1
8.3	Manageme	ent Measures	8-2
8.4	Budget		8-5
CHA	PTER-9 GR	EENBELT DEVLOPMENT PLAN	
9.1	Introduction	n	9-1
9.2	Need for G	Greenbelt Development Plan	9-1
9.3	Scheme for	r Greenbelt Development	9-2
9.3	Budget		9-3
CHA	PTER-10	CONTROLOF AIR POLLTION	
10.1	Impacts o	n Air Quality	10-1
10.2	Mitigation	Measures	10-2
10.3	Implement	ing Agency	10-4
CHA	PTER-11	MEASURES FOR NOISE CONTROL	
11.1	Impacts or	n Noise Levels	11-1
11.2	Mitigation	Measures	11-1
CHA	PTER-12	WATER POLLUTION CONTROL	
12.1	Control of	Water Pollution During Construction Phase	12-1
12.2	Control of	Water Pollution During Operation Phase	12-2

СНАР	PTER-13 RESETTLEMENT AND REHABILITATION PLAN	
13.1	Introduction	13-1
13.2	Affected Properties, Land and Families	13-1
13.3	Payment of compensation	13-2
13.4	Resettlement and Rehabilitation Plan	13-3
	13.4.1 Resettlement benefits	13-4
	13.4.2 Rehabilitation Plan	13-12
13.5	Institutional/ Administrative Arrangement for Implementation	13-17
	of the R&R Measures	
	13.5.1 Appointment of administration and commissioner for Rehabilitation & Resettlement and their powers and functions	13-17
	13.5.2 Grievance Redressal Mechanism	13-19
	13.5.3 Post-Project Monitoring	13-20
13.6	Participation of PAFS	13-21
13.7	Budget for R&R	13-22
13.8	Conclusions	13-24
CHAP	TER-14 ENVIRONMENTAL MONITORING PROGRAMME	
14.1	The Need	14-1
14.2	Areas of Concern	14-1
14.3	Water Quality	14-1
14.4	Air Quality and Meteorology	14-3
14.5	Noise	14-3
14.6	Soil Erosion and Siltation	14-4
14.7	Ecology	14-4
14.8	Incidence of Water-Related Diseases	14-5
14.9	Landuse Pattern	14-6
14.10	Summary of Environmental Monitoring programme	14-6
СНАР	PTER-15 COST ESTIMATES	
15.1	Cost for Implementing Environmental Management Plan	15-1
15.2	Cost for Implementing Environmental Monitoring Programme	15-1

# CHAPTER-16 SUMMARY OF IMPACTS AND MANAGEMENT MEASURES

## ANNEXURES

Annexure-I Scheme for Compensatory Afforestation

Annexure-II Village wise and khasra wise details of land owned, acquired and Balance Sheet with PAFs

Annexure-III List of PAFs with consolidated acquired, total and banalce land and Proportion acquired and balance with them

Annexure-IV Homesteads/ Sheds Likely to be Acquired

# LIST OF TABLES

TABLE-1.1	Details of cost for setting up of SVCC	1-11
TABLE-1.2	Budget for implementation of biodiversity conservation plan	1-14
TABLE-2.1	Landuse pattern of the catchment area	2-4
TABLE-2.2	Criteria for erosion intensity rate	2-7
TABLE-2.3	Basis for selection of catchment area treatment measures	2-10
TABLE-2.4	Erosion intensity categorization as per SYI classification	2-11
TABLE-2.5	Area under various erosion categories	2-11
TABLE-2.6	Details of biological treatment measures recommended as a part of CAT plan	2-12
TABLE-2.7	Details of Engineering measures recommended as a part of CAT pla	n 2-13
TABLE-2.8	Cost model for afforestation of degraded forest lands	2-14
TABLE-2.9	Cost model for maintenance of degraded land	2-15
TABLE-2.10	Cost model for replenishment afforestation	2-15
TABLE-2.11	Cost model for maintenance of replenishment afforestation	2-16
TABLE-2.12	Cost model for treatment of pasture land alpine pastures	2-17
TABLE-2.13	Cost estimate for Catchment Area Treatment - Biological Measures	2-18
TABLE-2.14	Cost estimate for Catchment Area Treatment - Engineering Measure	s2-18
TABLE-2.15	Yearwise target (physical and financial) for Catchment Area Treatment Plan	2-19
TABLE-3.1	Fish catch composition observed during the survey	3-2
TABLE-3.2	Major fishes species reported in river Sainj and its tributaries	3-2
TABLE-3.3	Number of fishing licences issued in the area	3-4
TABLE-3.4	Lean season flow from Nala/Khad joining between proposed	3-7
	barrage and confluence of tail race from power house	
TABLE-3.5	Component wise cost of fish seed Farm of trout proposed for Sainj Project	3-8
TABLE-4.1	Details of Para-medical staff for Dispensary	4-3
TABLE-4.2	Details of provision earmarked for health related infrastructure	4-7
	in DPR	
TABLE- 5.1	Cost Estimate for Sanitary Facilities for Labour Camps	5-2
TABLE-5.2	Cost estimates for solid waste management	5-4
TABLE-6.1	Component use detail of muck to be generated	6-2

TABLE-6.2	Capacity location and distance of dumping site from the muck	6-5
	Generation sites	
TABLE-6.3	Species recommended for plantation over muck disposal site	6-8
TABLE-6.4	Break-up of cost for stabilization of muck disposal sites	6-8
TABLE-7.1	Detail of Construction Material Required	7-1
TABLE-7.2	Cost estimate for restoration of quarry site and borrow area	7-3
TABLE-7.3	Species have been identified for beautification the area	7-4
TABLE-8.1	Details of roads proposed to be constructed	8-1
TABLE-8.2	Details of expenditure for implementation of measures for management of Impacts due to construction of roads	8-5
TABLE-10.1	Emission limits for DG sets prescribed by CPCB	10-3
TABLE-11.1	Maximum Exposure Periods specified by OSHA	11-3
TABLE-13.1	Details of land required for acquisition	13-1
TABLE-13.2	Village-wise details of project affected families	13-2
TABLE-13.3	Resettlement benefits to be extended to PAFs	13-4
TABLE-13.4	Cost estimate for sanitary facilities in the resettlement site	13-8
TABLE-13.5	Summary of Resettlement package	13-11
TABLE-13.6	Rehabilitation benefits extended to PAFs	13-12
TABLE-13.7	Budgetary provisions for implementation of R&R plan (Option-I)	13-22
TABLE-13.8	Budgetary provisions for implementation of R&R plan (Option-II)	13-23
TABLE-14.1	Summary of Environmental Monitoring Programme during Project Construction Phase	14-6
TABLE-14.2	Summary of Environmental Monitoring Programme During Project Operation Phase	14-7
TABLE-15.1	Cost for Implementing Environmental Management Plan	15-1
TABLE-15.2	Cost for Implementing Environmental Monitoring Programme during construction phase	15-2
TABLE-15.3	Cost for Implementing Environmental Monitoring Programme during operation phase	15-2
TABLE-16.1	Summary of Impacts, Suggested Management measures and Implementing agency	16-1

# **LIST OF FIGURES**

Figure-2.1	Watershed area map of Sainj H.E. Project
Figure-2.2	Landuse classification of the catchment area
Figure-2.3	Slope map of the catchment area
Figure-2.4	Prioritization of the different watersheds in the catchment area
Figure-2.5	Proposed catchment area treatment measures
Figure-3.1	Layout plan of a fish seed farm
Figure-6.1	Reclamation Plan for Muck Disposal site

# **ABBREVIATIONS AND ACRONYMS**

AISLUS - All India Soil and Land Use Survey

CAT - Catchment Area Treatment

CPCB - Central Pollution Control Board

DEM - Digital Elevation Model

DTM - Digital Terrain Model

DPR - Detailed Project Report

EC - Electrical conductivity

EIA - Environmental Impact Assessment

EMP - Environmental Management Plan

GIS - Geological Information System

GHNP - Great Himalayan National Park

GOI - Government of India

HEP - Hydroelectric Project

HPSEB - Himanchal Pradesh State Electricity Board

MOEF - Ministry of Environment and Forests

M&E - Monitoring and Evaluation

NEERI - National Environmental Research Institute

NOC - No Objection Certificate

NOx - Nitrogen Oxides

NPRR - National Policy for Resettlement & Rehabilitation

NPV - Net Productivity value

PAP - Project Affected People

PAF - Project Affected Families

PHC - Primary Health Centre

R&R - Resettlement & Rehabilitation

RPM - Respirable Particulate Matter

SPCB - State Pollution Control Board

SPM - Suspended Particulate Matter

SO<sub>2</sub> - Sulphur dioxide

STP - Sewage Treatment Plant

SYI - Silt Yield Index

SVCC - Sainj Valley Conservation Cell

VAM - Vesicular Arbuscular Mycorrizae

WAPCOS - Water and Power Consultancy Services (I) Limited

## chapter-1

# COMPENSATORY AFFORESTATION AND BIODIVERSITY CONSERVATION PLAN

## 1.1 INTRODUCTION

Conservation is the sustainable use of natural resources, so that it is preserved for future generation as well. Natural conservation involves proper management of natural wealth, places that sustain these resources besides the human pressure that affect the resources. The need for conservation, preservation and management of biological diversity arises because of threats to natural ecosystems by anthropogenic activities. In the present project threats may arise as a result of construction of barrage and associated activities of proposed Sainj hydroelectric project. The likely disruptive activities include road construction, blasting, excavation for tunnels, quarrying, dumping of excavated material and human population pressure on land and biological resources. In view of the foreseen disturbance and degradation of natural ecosystems, a compensatory afforestation plan and biodiversity conservation and management plan has been proposed for Sainj hydroelectric project.

## 1.2 COMPENSATORY AFFORESTATION

The Forest Department of Himachal Pradesh is responsible for conservation and Management of forests in the state. The project site is located in the vicinity of the Great Himalayan National Park (GHNP). The Director GHNP is responsible for the management of the forests and forest area in the study area. The objective of the compensatory afforestation is to make up for the loss of forest land proposed to be utilized for construction of the proposed Sainj hydroelectric project. The other

objective include to combat soil erosion, afforestation and last but not least to maintain and improve the ecological and environmental balance.

## 1.2.1 Impacts on Forest

The forest land required for the proposed Sainj hydroelectric project is 47.993 ha. The forest in the project area is under stress due to multiple reasons. The human settlement, agriculture activities, grazing in the forest contribute to degradation of forest. Due to construction of barrage, the clearing of vegetation, movement of earth and rock, widening of road, stocking of construction materials, erection of temporary labour sheds and excavation disturb vegetation and forest area.

During reservoir filling the river and associated wetland become inundated and flora is lost. The species density and diversity in the proposed submergence area is not significant. However, some tree and other vegetation will be cleared from the proposed submergence. In addition to that some trees to be cut due to construction of roads.

#### 1.2.2 Afforestation

The Indian Forest Conservation Act (1980) stipulates:

- If non-forest land is not available, compensatory plantation are to be established on degraded forest lands, which must be twice the forest area affected or lost, and
- If non- forest land is available, compensatory forest are to be raised over an area equivalent to the forest area affected or lost.

The total forest loss including submergence area and other project appurtenance is about 41.94 ha. It is proposed to afforest double the amount of forestland being acquired for the project. Thus, a total of 41.94 (x 2) 83.88 ha of land needs to be afforested. The afforestation work is to be done by the Forest Department

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The total expenditure required for afforestation of 83.88 ha of area will be **Rs. 5.90** million. The details of scheme for compensatory afforestation is given in Annexure-I. In addition to above the project proponent will pay an amount of Rs. 31.45 million to the Forest Department as NPV. As far as cost of trees is concerned, an amount of Rs. 34.36 million shall be paid to the Forest Department, by the project proponents. Director GHNP is responsible for conservation of Forest and improvement of habitat for wildlife in the project area. Compensatory afforestation is proposed to be undertaken on degraded forest land identified by Director GHNP. The scheme would be implemented as per integrated Afforestation Programme prepared by Director GHNP. This includes activities like soil conservation works fencing protection awareness, monitoring and evaluation along with the maintenance for 7 years.

#### 1.3 BIODIVERSITY CONSERVATION

## 1.3.1 CONSERVATION OF FLORA

## a. Conservation priorities

The catchment area is rich in biodiversity on which the local inhabitant depends for day to day needs. The area has enormous diversity of medicinal plant and other endangered species. Deforestation at lower limits and over-grazing and indiscriminate over-exploitation of medicinal herbs in higher reaches have led to an irretrievable loss in the genetic diversity of these species. In order to mitigate adverse impacts due to project activities and degradation due to congregation of labour population during construction phase. The project authorities in addition to the monitoring of illegal activities, tree felling, will initiate positive steps for conservation of the species at risk. Attention will be given to the habitat protection and strict watch would be maintained to prevent degradation of species under threat and wildlife

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habitats.

## b) Conservation for rare and endangered floral species

Some of the plant species which are rare and endangered in nature in terms of their small population sizes, will be specially selected for conservation/preservation. These species are *Betula alnoides*, *Desmodium gangaticum*, *Sorbus accuparia*, *Bistorta macrophylla*, *Polygonatum verticillatum*, etc. will be taken up for *in situ* and *ex situ* conservation. The *in situ* measures will include rehabilitation of these species in the similar habitats around the area. In case it is known that the population sizes are extremely small in some cases efforts would be made to augment the natural population through artificial multiplication and regeneration.

## c) Conservation measures

#### In situ Conservation Measures

The in situ conservation measures for the Betula alnoides species will be given highest priority. The taxa will be identified and relocated in the similar habitats. Their niche requirements would be analyzed so that their relocation takes place smoothly and they are able to propagate naturally. The areas for in situ relocation will be in the vicinity of their natural habitats. The relocation sites will be selected in a manner so that these taxa are not exposed to any biotic or abiotic threat or pressure. The different taxa would be segregated based on their reproductive propogules. As majority of these species herbaceous perennials with are rhizome/rootstock/corm/bulb as the reproductive propgules, sufficient care will be taken to relocate them initially in nurseries for proper establishment and finally these will be transferred to the selected sites for natural propagation.

The nurseries of about 1 acre area will be located at the appropriate site in the

broadleaf forests and the relocation habitats will be selected among the forests in the area. This exercise will be accomplished by the, State Forest Department. HPSEB will provide the necessary funding support a provision of Rs.3.0 million has been in the project cost for. Since the naturalness of habitats has to be maintained in all respects, no artificial means will be employed to assist these taxa in their relocation.

#### **Ex-situ Conservation Measures**

Ex-situ conservation measures will be pursued for threatened species which have low reproductive potential and efficiency. The taxa with low individual numbers will-be selected and ex-situ conservation measures like seed collection, in vitro seed germination and nursery establishment will be carried out.

Plant tissue culture will be tried for mass multiplication of such taxa for which protocols are already developed. Some of the species that need such conservation programmes are: *Desmodium gangaticum* (Safed kathi), *Delphinium denudatum* (Nirbishi), and *Polygonatum verticillatum* (Salam misri).

In vitro pant regeneration of medicinally important plant species have been achieved by using different explants or through organogenesis and cell suspension cultures. Protocols for the in vitro micro propagation of *Polygonatum verticillalum* (Jayanti Sengupta *et al.*, 1987) have been developed successfully. The use of in vitro techniques not only helps in the conservation of this threatened species but also potentially increases the production of medicinally important compound for which the particular plant species is being exploited.

It is proposed that Institutions such as Y.S. Parmar University, Himachal Pradesh, Department of Botany, Punjab University. Chandigarh, NBPGR, New Delhi Himalayan Forest Research Institute of ICFRE at Shimla and G.B. Pant Institute of Himalayan Environment and Development, Regional Centre, Mohal (Kullu) shall be

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involved for the development of protocols for the in vitro micro propagation and the subsequent re-introduction of these species in their natural habitats. The necessary funding support for setting up the laboratory and offices, chemicals and equipment, hardening facility and green houses/chick houses, etc. and maintenance for 5 years would be provided by HPSEB. A provision of Rs.5.0 million has been considered for this purpose. The Tissue Culture Centre will be taken over by the host institute after the five year period upon the approval of Ministry of Environment & Forests, Government of India.

#### 1.3.2 CONSERVATION OF FAUNA

## a. Conservation Priorities

#### **Mammals**

The mammals like Goral, Kakar, Bharal and Ibex found in upper reaches of Sainj valley frequently descend down to 1,300m on grassy slopes or rocky lands between the forests. The visits are made either in mornings or evenings for feeding. These animals, therefore, expose themselves to risks of being shot down or caught and poached. More importantly, most of these animals breed in the winter months starting October. They also descend down during this period particularly after snowfall. The young ones are born in the months of April to June. The mammals like Himalayan thar and Himalayan musk deer also found on grassy and precipitous slopes, on the other hand are quite shy and are very fast runners. Even then they are laid down by the poachers. Among large mammals, Brown bear which inhabits upper reaches of Sainj valley descends down in autumn for mating and its young ones are born in February-March. Snow leopard seldom comes down from 3,500m.

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#### Avi-fauna

Among the birds Chakor, Hill partridge and pheasants - Kalij, Cheer, Koklas, Monal and Western Tragopan all are known to descend down to lower altitudes during winter months. Their nesting season starts from April extending up to June. Cheer and Monal are found mainly in Jiwa valleys while Western Tragopan is found mostly in GHNP. The highly expensive edible mushroom, *Morchella* spp., locally known as 'Gucchhi' grows in the same habitats as that of pheasants. Gucchhi extraction coincides with the breeding season of Pheasants who are forced to leave nests because of frequent visits of people in their nesting areas. It has reported to lead to decline in breeding success of pheasants (Kumar *et al.*, 1999). Removal of litter and trampling while mushroom collection have also been found to have negative impact on invertebrate population thriving on ground which are primary source of food for growing pheasant chicks.

#### b. Management Strategies

Keeping in view the sudden influx of labour population in the 'wildlife rich areas, the following actions are suggested for the conservation of fauna in the region.

- The project authorities would ensure that strict vigil is kept especially during the breeding season of animals i.e. from October- December and when young ones are born/ nesting season, i.e. from March-June. Activities like blasting or heavy machine operations producing noise levels more than 80-100 dB will be restricted during this period. Heavy penalties would be imposed for violation of this conduct by contractors/labourers, etc. during this period. These aspects shall be included in the Tender Document for the Contractor involved in construction works.
- ii) Information dissemination emphasizing the need of conservation and legal

consequences on violation of Forest and Wildlife (Protection) Acts will be prioritised and publicised. Awareness would also be imparted to the labourers engaged in construction activities for exerting great restraint especially during critical months of breeding and nesting of animals and birds.

- iii) The signboards/Notice boards highlighting penalties for violation of rules, will be put nearby habitation areas of labourers. The importance of conservation of wildlife would also be emphasised.
- iv) Education and awareness campaigns including screening of audio-visual films would be conducted stressing on the harmful and negative consequences of collection and removal of herbs and 'Gucchhi' in early stages of their growth.
- v) No firearms would be allowed in the valley and the visitors will be made to deposit any firearms with the forest check posts before entering these areas.

Some of the Schedule-I animals reported from the catchment areas include Snow leopard, Common leopard, Wolf, Leopard cat, Himalayan black bear, Himalayan brown bear, Bharal, Himalayan ibex, Himalayan tahr, Serow and Musk deer. Maximum efforts would be made to avoid degradation and damage to the habitat and migration routes of these animals. Though majority of the habitats of these animal species are away from the project sites, but some animals do stray into the areas where project works will be carried out. The project authorities would take the following steps in order to ensure habitat protection and protection to animal and bird species like Monal and Western Tragopan around the project sites.

• There will be strict monitoring of laborers and associated workers for any

- activity related to endangering the life or habitat of wild animals and birds.
- Strict restrictions will be imposed on the workers at project sites to ensure that they do not harvest any produce from the natural forests and cause any danger or harm to the animals and birds in wild.
- Minimum levels of noise during construction activities will be maintained and no activity will be carried out at night since where the project site is in the close vicinity of natural animal/bird habitats.
- The fuel wood to the laborers will be provided from plantations meant for the purpose and/or the provision has been made for the supply of the free subsidized kerosene/LPG from the depots being set up for this purpose to avoid forest degradation and animal habitats.
- The interference of human population would be kept to the minimum and it
  would be ensured that the contractors do not set up laborer colonies in the
  vicinity of forests and wilderness areas.
- The project authorities will be bound by the rules and regulations of the Wildlife Protection Acts or any such agency of the State, which may exist or will be promulgated from time to time for the preservation of habitats and protection of wild animals.

## 1.4 SAINJ VALLEY CONSERVATION CELL

It is recommended that a Sainj Valley Conservation Cell (SVCC) be created under the aegis of Director, Great Himalayan National Park (GHNP). The funding support for this would be provided by the project authorities for a period of 5 years. The action plan for this Cell is as follows:

- i) A Sainj Valley Conservation Cell (SVCC) will be set up by the State Government upon the recommendation of Ministry of Environment & Forests, Government of India under the direct and over all administrative control of the Chief Wildlife Warden, Himachal Pradesh.
- ii) The SVCC would be governed by a Board under the Chairmanship of the Chief Wildlife Warden/Director (GHNP) and shall include two members each from State Forest Department, two renowned

- Ecologists/Conservationists, two representatives of local NGOs and one Central Government representative of Ministry of Environment & Forests.
- iii) The SVCC shall be housed in the office of the Chief Wildlife Warden and would have a minimum staff of 15 personnel namely Assistant Conservator of Forests (1), Wildlife Rangers (3), Forest Guards (8), Head Clerks (1), Drivers (1), Peons (1).

## 1.4.1 Activities to be undertaken by SVCC

- i) The main job of this Cell would be to look after the conservation areas in the vicinity of Project Areas, monitor and enforce regulatory provisions and ensure that the natural ecosystem structure and functions are not changed or subjected to any threat.
- ii) The proposed Cell will endeavor to conduct works related to documentation of the existing biological diversity in the project area and publish check lists of flora and fauna. However, this effort would be supplemented by detailed surveys on flora and fauna that are proposed to be conducted by the competent institutions/agencies.
- iii) <u>Surveillance</u>: The Cell through its staff will ensure that the land use frozen at the beginning is not changed and no anthropogenic activities from private or public agencies are carried out within the boundaries of the protected area.
- iv) <u>Fire Protection</u>: The forests of the Sainj and adjoining catchments are at times subjected to forest fires. Special attention, therefore needs to be paid to the prevention of forests fires as well as the protection of forests during forest fires.
- v) <u>Local Participation</u>: The inhabitants of the area would be encouraged to adopt conservation oriented practices and economic activities. This would ensure habitat protection and continuity as well as rule out loss of wildlife species. These practices will also help in preventing disruption, disturbance and fragmentation of the wildlife habitats.
- vi) <u>Enforcement of Anti-poaching Laws</u>: Necessary provisions for law enforcement will need to be put in place to empower these field personnel within the existing framework of the Himachal Pradesh State Forest Department.

- vii) The penalty to the violator/s carrying out any illegal operations in this area shall be dealt under existing laws of the Forest Conservation Act, Wildlife Protection Act and other laws which may exist or may come in force from time to time to prevent damage/disturbance to these natural ecosystems.
- viii) Monitoring: A monitoring committee will be set up which will monitor and ensure the implementation of conservation measures. The monitoring committee would include all the members of governing board of SVCC and will also have a representative of Project authority. The Cell would monitor the conservation measures like the control of poaching, regulation of biotic activities, prevention of domestic cattle straying into Protected Areas, Conservation awareness, research and monitoring and alternate income generating activities like cultivation of medicinal plants and 'Guchhi' collection from pristine forest areas.

A provision of **Rs.25.65 million** has been earmarked for setting up the Sainj Valley Conservation Cell. The details of cost for setting up of Cell is given in Table-1.1.

TABLE-1.1
Details of cost for setting up of SVCC

S. No	. Particular	Amount (Rs. million)
Α.	Capital Expenditure	
i)	Office/Building	1.50
ii)	Equipment (Forest equipment, guns, wireless sets for communication, laboratory equipment, computers, etc.	2.00
iii)	Furniture and furnishings	0.50
iv)	Vehicles (1)	0.50
	Total (A)	5.50
<b>B.</b> 1. i)	Recurring Expenditure (for one year) Salaries & Wages Assistant Conservator (1)	
ii)	@ Rs.25,000/- per month = 1 x 12 x 25,000 Wildlife Rangers (3)	0.3
	@ Rs.15,000/- per month = 3 x 12 x 15000	0.5

S. No	o. Particular	Amount (Rs. million)	
iii)	Guards (8) @ Rs.10,000/- per month		
	= 8 x 12 x 10,000	0.96	
iv)	Head Clerks (1) @ Rs.5,000/- per month		
	= 1 x 12 x 10,000	0.12	
v)	Drivers (1) Rs.5,000/- per month		
• • • • • • • • • • • • • • • • • • • •	$= 1 \times 12 \times 5,000$	0.06	
vi)	Peons (1) Rs.5,000/- per month	0.00	
	$= 1 \times 12 \times 5,000$	0.06	
2.	Contingent expenditure		
	L.S. @ Rs.1.00 lakhs per year	0.10	
3.	Running and Maintenance of vehicles		
	L.S. @ Rs.1.00 lakhs per year	0.10	
4.	Miscellaneous expenses	0.10	
	L.S. @ Rs.1.00 lakhs per year		
5.	Surveys and studies	1.0	
	Sub Total	3.30	
	Total Running Expenditure for 5 years including 10% escalation (B)	20.15	
	Grand Total (A + B)	25.65	

#### 1.5 ENVIRONMENTAL AWARENESS FOR CONSERVATION

The project authorities will provide assistance and funding support to the existing State Government agencies, like Forest Department, Greater Himalayan National Park in popularizing environmental conservation among the local inhabitants as well as outsiders. The packages will be in the form of incentives to the locals as well as educational awareness

Since the valley attracts lot of tourist traffic during summers, necessary information campaign will be organized with the help of Forest and Wildlife Agencies. Some of the steps that will be initiated includes publication of an Eco-tourists Guide, pamphlets and other dissemination packages for local school children, adults and tourists. These materials will contain Dos and Don'ts as well as penalties in case of

violations. These kits in the form of Audio-Visual kits, books, posters and other environmental awareness material will be distributed free of cost to the schools and NGOs for conducting various campaigns under the environment awareness programmes. Furthermore the local NGOs and educational institutions located in the town of Kullu and Manali would also conduct environment awareness workshops, seminars, field trips from time to time highlighting the importance of conserving the natural resources in their area. Similarly orientation programmes would also be conducted for not only the officers working on the project but also for the workers and labourers engaged in various construction activities. The project authorities will also bring out a monthly publication in local language which would list out the progress on various conservation programmes being undertaken in the project area and also announce in advance the schedule of various activities and seminars to be conducted for different strata of groups. The funding for all the above mentioned activities would be provided by the project authorities. An amount of Rs.1.0 million has been earmarked for this purpose in addition to the funds of Rs.1.0 million required for the preparation and publication of relevant material for various conservation programmes. Hence a total of Rs.2.0 million have been set aside for conducting various environment awareness programmes.

#### 1.6 ANTI-POACHING MEASURES

During construction phase in and around the main construction areas, i.e. the barrage site, powerhouse site, etc. where construction workers congregate, some disturbance to the wildlife population may occur. Therefore, marginal impacts may be on wild life due to various construction activities. In view of this it is recommended that 2 check posts be developed in the major construction area i.e. one near intake and one near power house along the boundary of labour camps to prevent anti-

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poaching activities in the GHNP. Each check post shall have 3 guards to ensure that poaching does not take place in the area. The guards will be supervised by a range officer. It is also recommended that the staff manning these check posts have adequate communication equipment and other facilities. Apart from inter-linking of check posts, communication link needs to be extended to Divisional Forest Office and the local police station also. The cost involved on this account has already been included in the cost for development of SVCC.

#### 1.7 BUDGET

A total provision of **Rs.35.65 million** has been earmarked for biodiversity conservation. The details are given in Table-1.2.

Budget for implementation of biodiversity conservation plan

TABLE-1.2

Item	Cost (Rs. million)
Setting up of Sainj Valley Conservation Cell (SVCC)	25.65
Ex-situ Conservation Measures	3.0
In-situ Conservation Measures	5.0
Awareness programme for conservation	2.0
Total	35.65

Thus total provision of **Rs. 107.365 million** (5.90 + 31.455 + 34.36 + 35.65) has been earmarked for Compensatory Afforestation NPV, Cost of Trees and Biodiversity Conservation.

#### CHAPTER-2

## **CATCHMENT AREA TREATMENT PLAN**

#### 2.1 NEED FOR CATCHMENT AREA TREATMENT

It is a well-established fact that reservoirs formed by dams on rivers are subjected to sedimentation. The process of sedimentation embodies the sequential processes of erosion, entrainment, transportation, deposition and compaction of sediment. The study of erosion and sediment yield from catchments is of utmost importance as the deposition of sediment in reservoir reduces its capacity, and thus affecting the water availability for the designated use. The eroded sediment from catchment when deposited on streambeds and banks causes braiding of river reach. The removal of top fertile soil from catchment adversely affects the agricultural production. Thus, a well-designed Catchment Area Treatment (CAT) Plan is essential to ameliorate the above-mentioned adverse process of soil erosion.

Soil erosion may be defined as the detachment and transportation of soil. Water is the major agent responsible for this erosion. In many locations, winds, glaciers, etc. also cause soil erosion. In a hilly catchment area as in the present case erosion due to water is a common phenomenon and the same has been studied as a part of the Catchment Area Treatment (CAT) Plan.

The Catchment Area Treatment (CAT) plan highlights the management techniques for to control erosion in the catchment area of a water resource project. The life span of a reservoir is greatly reduced due to erosion in the catchment area. Adequate preventive measures are thus needed for the treatment of catchment for its stabilization against future erosion. The catchment area considered for treatment under the present project i.e. Sainj hydroelectric project is 39730 ha. The sub-watershed in the catchment area considered for the present study is given in Figure-2.1.

The catchment area treatment involves:

- Understanding of the erosion characteristics of the terrain and,
- Suggesting remedial measures to reduce the erosion rate.

In the present study 'Silt Yield Index' (SYI), method has been used. In this method, the terrain is subdivided into various watersheds and the erodibility is determined on relative basis. SYI provides a comparative erodibility criteria of catchment (low, moderate, high, etc.) and do not provide the absolute silt yield. SYI method is widely used mainly because of the fact that it is easy to use and has lesser data requirement. Moreover, it can be applied to larger areas like sub-watersheds, etc.

#### 2.2 APPROACH FOR THE STUDY

A detailed database on natural resources, terrain conditions, soil type of the catchment area, socio-economic status, etc. is a pre-requisite to prepare treatment plan keeping in view the concept of sustainable development. Various thematic maps have been used in preparation of the CAT plan. Due to the spatial variability of site parameters such as soils, topography, land use and rainfall, not all areas contribute equally to the erosion problem. Several techniques like manual overlay of spatially index-mapped data have been used to estimate soil erosion in complex landscapes.

Geographic Information System (GIS) is a computerized resource data base system, which is referenced to some geographic coordinate system. In the present study, real coordinate system has been used. The GIS is a tool to store, analyze and display various spatial data. In addition, GIS because of its special hardware and software characteristics, has a capacity to perform numerous functions and operations on the various spatial data layers residing in the database. GIS provides the capability to analyze large amounts of data in relation to a set of established criteria.

In order to ensure that latest and accurate data is used for the analysis, satellite data has been used for deriving land use data and ground truth studies too have been conducted.

The various steps covered in the study are as follows:

- Data acquisition
- Data preparation
- Output presentation

The above mentioned steps are briefly described in the following paragraphs.

## 2.2.1 Data Acquisition

The requirement of the study was first defined and the outputs expected were noted.

The various data layers of the catchment area used for the study are as follows:

- Slope Map
- Soil Map
- Land use Classification Map
- Current Management Practices
- Catchment Area Map.

## 2.2.2 Data Preparation

The data available from various sources was collected. The ground maps, contour information, etc. were scanned, digitized and registered as per the requirement. Data was prepared depending on the level of accuracy required and any corrections required were made. All the layers were geo-referenced and brought to a common scale (real coordinates), so that overlay could be performed. A computer programme was used to estimate the soil loss. The formats of outputs from each layer were firmed up to match the formats of inputs in the program. The grid size to be used was also decided to match the level of accuracy required, the data availability and the software and time limitations. The format of output was finalized. Ground truthing and data collection was also included in the procedure.

For the present study IRS 1C-LISS III digital satellite data was used for interpretation and classification. The classified land use map of the catchment area considered for the study is shown as Figure-2.2. The landuse pattern of the catchment area is summarized in Table-2.1.

TABLE-2.1

Landuse pattern of the catchment area

S. No.	Category	Area (ha)
1.	Dense vegetation	7121 (17.92)
2.	Open vegetation	3162 (7.96)
3.	Scrub	3000 (7.55)
4.	Agriculture	1204 (3.03)
5.	Barren lands	3397 (8.55)
6.	Water bodies	4773 (12.01)
7.	Snow cover	17004 (42.80)
8.	Settlements	69 (0.17)
	Total	39730 (100.00)

**Note:** Figure in brackets indicate percentage

Digitized contours from toposheets were used for preparation of Digital Elevation Model (DEM) of the catchment area and to prepare a slope map. The first step in generation of slope map is to create surface using the elevation values stored in the form of contours or points. After marking the catchment area, all the contours on the toposheet were digitised (100 m interval). The output of the digitisation procedure was the contours as well as points contours in form of x, y & z points. (x, y location and their elevation). All this information was in real world coordinates (latitude, longitude and height in meters above sea level).

A Digital Terrain Model (DTM) of the area was then prepared, which was used to derive a slope map. The slope was divided in classes of slope percentages. The slope map is enclosed as Figure-2.3.

Various layers thus prepared were used for Modeling. Software was prepared to

calculate the soil loss using input from all the layers.

## 2.2.3 Output Presentation

The result of the modeling was interpreted in pictorial form to identify the areas with high soil erosion rates. The primary and secondary data collected as a part of the field studies were used as an input for the model.

## 2.3 ESTIMATION OF SOIL LOSS USING SILT YIELD INDEX (SYI) METHOD

The Silt Yield Index Model (SYI), considering sedimentation as product of erosivity, erodibility and areal extent was conceptualized in the All India Soil and Land Use Survey (AISLUS) as early as 1969 and has been in operational use since then to meet the requirements of prioritization of smaller hydrologic units.

The erosivity determinants are the climatic factors and soil and land attributes that have direct or reciprocal bearing on the unit of the detached soil material. The relationship can be expressed as:

**Soil erosivity = f** (Climate, physiography, slope, soil parameters, land use/land cover, soil management)

## Silt Yield Index

The Silt Yield Index (SYI) is defined as the Yield per unit area and SYI value for hydrologic unit is obtained by taking the weighted arithmetic mean over the entire area of the hydrologic unit by using suitable empirical equation.

#### **Prioritization of Watersheds/Subwatersheds**

The prioritization of smaller hydrologic units within the vast catchments are based on the Silt Yield Indices (SYI) of the smaller units. The boundary values or range of SYI values for different priority categories are arrived at by studying the frequency distribution of SYI values and locating the suitable breaking points. The watersheds/

sub-watersheds are subsequently rated into various categories corresponding to their respective SYI values.

The application of SYI model for prioritization of subwatersheds in the catchment areas involves the evaluation of:

- a) Climatic factors comprising total precipitation, its frequency and intensity,
- b) Geomorphic factors comprising land forms, physiography, slope and drainage characteristics,
- c) Surface cover factors governing the flow hydraulics and
- d) Management factors.

The data on climatic factors can be obtained for different locations in the catchment area from the meteorological stations whereas the field investigations are required for estimating the other attributes.

The various steps involved in the application of model are:

- Preparation of a framework of sub-watersheds through systematic delineation
- Rapid reconnaissance surveys on 1:50,000 scale leading to the generation of a map indicating erosion-intensity mapping units.
- Assignment of weightage values to various mapping units based on relative silt-yield potential.
- Computing Silt Yield Index for individual watersheds/subwatersheds.
- Grading of watersheds/subwatersheds into very high, high medium, low and very low priority categories.

The area of each of the mapping units is computed and silt yield indices of individual subwatersheds are calculated using the following equation:

#### a. Silt Yield Index

SYI = 
$$\Sigma$$
 (Ai x Wi) x 100; where i = 1 to n  
Aw

where

Ai = Area of ith unit (EIMU)

Wi = Weightage value of ith mapping unit

n = No. of mapping units

Aw = Total area of sub-watershed.

The SYI values for classification of various categories of erosion intensity rates are given in Table-2.2.

TABLE-2.2

Criteria for erosion intensity rate

Priority categories	SYI Values
Very high	> 1300
High	1200-1299
Medium	1100-1199
Low	1000-1099
Very Low	<1000

## 2.4 WATERSHED MANAGEMENT – AVAILABLE TECHNIQUES

Watershed management is the optimal use of soil and water resources within a given geographical area so as to enable sustainable production. It implies changes in land use, vegetative cover, and other structural and non-structural action that are taken in a watershed to achieve specific watershed management objectives. The overall objectives of watershed management programme are to:

- increase infiltration into soil
- control excessive runoff
- manage & utilize runoff for useful purpose.

Following Engineering and Biological measures have been suggested for the catchment area treatment.

## 1. Engineering measures

- Step drain
- Stone masonry
- Check dams

## 2. Biological measures

- Development of nurseries
- Plantation/afforestation
- Pasture development
- Social forestry

The description of various catchment area treatment measures recommended as a part of CAT Plan of the proposed Sainj hydroelectric project is given in the following paragraphs:

- i) Afforestation: A well stocked forest plays a very important role in control of soil erosion. Thus, it is proposed to increase the vegetal cover in the area. For this purpose, barren areas, devoid of tree growth have been recommended to be brought under afforestation. As a part of the CAT Plan, two types of afforestation programmes have been recommended which are described in the following paragraphs:
- a) Afforestation of degraded areas: As a part of the scheme, barren areas devoid of tree cover will be taken up for plantation. The tree species recommended for plantation include Deodar, Kail, Ban Oak, Ceder, Poplar, etc. About 1600 plants per hectare shall be planted.
- b) Replenishment Afforestation: Many of the forest areas which have been depleted due to excessive pressure of local population for timber, fuelwood and fodder. The natural regeneration is absent as a result of increased human interferences. For such forest areas, it is proposed to increase the stocking by artificial regeneration. About 600 to 800 trees per ha are proposed to be planted as a part of this measure.

**Fuelwood and Fodder Development :** The dependence of local population on forest resources to meet fuel wood and fodder requirements leads to cutting of trees

and clearance or grazing of pastures. This leads to increased soil erosion. Thus, as a landuse management strategy it is proposed to develop area under social forestry, fuelwood and fodder development to reduce the pressure on existing forest resources.

**Pasture development**: Barren lands with slopes greater than 40% have been recommended to be treated by developing pastures over them. Fodder development has been recommended in vicinity to the villages within the catchment. This will reduce the pressure on pasture land being developed as a part of the catchment area treatment plan.

**Stepped Drain**: Stepped drain are recommended in the steep streams where soil erosion is high. The stepped drain can be concrete drain (2-3 ft. steps) or steps can be developed with sausage wall or combination of sausage walls and dry walls. The steps in the drain help in reducing the current of water which reduces the soil erosion.

**Contour Bunding:** is a widely used soil conservation measure on agriculture land. It consists of constructing narrow trapezoidal embankments on contour to impound the runoff water behind them, so that impounded water is absorbed gradually into the soil profile for crop use.

**Barbed wire fencing** as the name suggests are made of barbed wire and angle iron post/wooden post. The posts are placed at intervals of 2 to 2.5 m with six to nine horizontal barbed wires. The fencing is mainly used for protection of plantation areas.

**Development of nursery**: is done to provide saplings for various plantation works. Nursaries have been recommended as a part of the CAT Plan in various subwatersheds covered as a part of the CAT Plan. The size of the nursery can be 1 to 1.5 ha and about 10,000 saplings can be planted in the nursery.

The basis of site selection for different biological and engineering treatment measures under CAT are given in Table-2.3.

TABLE-2.3

Basis for selection of catchment area treatment measures

Treatment measure	Basis for selection		
Social forestry, fuel wood and	Near settlements to control tree felling		
fodder grass development			
Contour Bunding	Control of soil erosion from agricultural fields.		
Pasture Development	Open canopy, barren land, degraded surface		
Afforestation including fencing			
of the area	gentle to moderate slope		
Step drain	To check soil erosion in small streams, steps with concrete base are prepared in sloppy area where silt erosion in the stream and bank erosion is high due to turbidity of current.		
1:4:8 Stone masonry	Steep slopes, sliding surfaces, less vegetative cover and silt erosion is high		
Nursery	Centrally located points for better supervision of proposed afforestation, minimize cost of transportation of seedling and ensure better survival.		

#### 2.5 CATCHMENT AREA TREATMENT MEASURES

The total directly draining catchment area is 39,730 ha. The erosion category of various watershed in the catchment area as per a SYI index are given in Tables-2.4 and 2.5. The details are shown in Figure-2.4.

TABLE-2.4

Erosion intensity categorization as per SYI classification

Watershed number	Area (ha)	SYI values	Category
W1	1377	1216	High
W2	1285	1335	Very High
W3	1228	1217	High
W4	1693	1295	High
W5	753	1253	High
W6	912	1246	High
W7	852	1264	High
W8	793	1050	Medium
W9	1325	1285	High
W10	1414	1159	Medium
W11	1885	1155	Medium
W12	1255	1046	Medium
W13	1307	1208	High
W14	1330	1032	Low
W15	986	1030	Low
W16	1759	1126	Medium
W17	1247	1212	High
W18	1255	1240	High
W19	1242	1088	Low
W20	1139	1033	Low
W21	687	947	Very Low
W22	1758	969	Very Low
W23	1247	1003	Low
W24	827	1191	Medium
W25	707	1000	Low
W26	1146	932	Very Low
W27	712	1064	Medium
W28	2015	1126	Medium
W29	1375	933	Very Low
W30	1747	1005	Low
W31	1697	973	Very Low
W32	775	967	Very Low
Total	39730		

TABLE-2.5
Area under various erosion categories

S. No.	Category	Area (ha)
1.	Very Low	7438 (18.7)
2.	Low	12207 (30.7)
3.	Medium	6851 (17.2)
4.	High	11949 (30.2)
5.	Very High	1285 (3.2)
	Total	39730(100.00)

**Note:** Figure in brackets indicate percentage

The objective of the SYI method is to prioritize sub-watershed in a catchment area for treatment. The area under very high and high erosion categories is to be treated at the project proponent cost. Hence, CAT plan has been suggested for very high and high erosion category, as a part of the present EIA study, the expenses of which have to be borne by project proponents. The area under very high and high erosion categories is 13,234 ha, which is about 33.4% of the total catchment area intercepted at the barrage site.

## 2.6 TREATMENT MEASURES

As a part of catchment area treatment plan, various biological as well as engineering treatment measures have been recommended. The details of the biological and engineering treatment measures recommended as a part of CAT plan are given in Tables-2.6 and 2.7 respectively.

Details of biological treatment measures recommended as a part of CAT plan

TABLE-2.6

S. No.	Treatment measures	Watershed No.	Area (ha)
1. At	Afforestation (1600 trees/ha)	W1	25
	,	W2	18
		W3	20
		W5	17
		W6	21
	Total		101
2. Gap P	Gap Plantation	W1	129
		W2	110
		W3	107
		W5	119
		W6	96
	Total		561
3.	Pastures Development	W1	135
		W2	52
		W3	134
		W5	138
		W6	114
		W7	37

S. No.	Treatment measures	Watershed No.	Area (ha)
		W9	60
		W13	124
	Total		794
4.	Fuel wood and Fodder	W1	15
	development	W2	15
		W3	15
		W13	25
	Total		70
5.	Social forestry	W1	15
		W2	15
		W3	15
		W13	25
	Total		70

TABLE-2.7
Details of Engineering measures recommended as a part of CAT plan

S.No.	Treatment measures	Watershed No.	Quantity
1.	Contour bunding	W1	104
	3	W2	81
		W3	63
		W5	58
		W6	95
	Total		401 ha
2.	Stepped drains	W1	2
		W2	1
		W3	1
		W5	1
		W6	1
		W9	1
	Total		7
3.	Check Dam	W1	3
		W2	2
		W3	1
		W5	1
		W6	2
		W9	2
		W17	2
		W18	2
	Total		15

# 2.7 COST ESTIMATE

The per ha cost of treatment for afforestation, and pasture development is given in Table-2.8 to 2.12 respectively.

TABLE-2.8

Cost model for afforestation of degraded forest lands

S.No.	Particulars of works	Quantity	Rate (Rs.)	Amount
1.	Survey and preparation of plantation including making sections, path and preparation of map	1 ha	40.95/ha	40.95
2.	Construction of R.R.Stone masonary barbed wire fence pillars 0.60 x0.60 bottom & 0.45 x 0.45 top and 1.20 mtr. Hight i/c collection & carriage of stone upto 200 mtr	80 No.	92.05/pillar	7364.00
3.	Carriage of B/wire over average distance of 1 km	1 Qtl.	68.25/qtl/km	68.25
4.	Interlacing of thorny bushes in B/wire fence	240 Rm	1.65/Rm	396.00
5.	Preparation of inspection path 60 cm wide	150 Rm	4.35/Rm	652.50
6.	Preparation of Gradonialtrenches above pits size 1x0.30x0.30	1100 Nos.	5.40/Rm	5940.00
7.	Layout of pits over	1 ha	68.15/ha	68.15
8.	Digging of pits 45x45x45 cm	500	381.80/100	1909.00
9.	Digging of pits 30x30x30 cm	600	190.95/100	1145.70
10.	Filling of pits 45x45x45 cm	500	109.40/100	547.00
11.	Filling of pits 30x30x30 cm	600	76.35/100	458.10
12.	Carriage of naked root plants over distance 2 km	1000	14.10/100m	141.00
13.	Carriage of plants in P/bags over distance 2 km	1200	87.25/100km	1047.00
14.	Planting of B.L. plants	500	73.60/100	368.00
15.	Planting of plants raised in P/bags	600	87.30/100	523.80
	Total			20669.45
16	Add	16.67%		3445.60
17.	Add cost of B/wire including cost of U-nailes	1 Quintal	4500.00	4500.00
18.	Add cost of plants	1100 plants	4.00	4400.00
19	Add protection cost of area	Lumpsum		500.00
	Total (Rs./ha)			12845.60
	Grand Total (Rs./ha)			33515.05
	Or say (Rs./ha)			33500.00

TABLE-2.9

Cost model for maintenance of degraded land

S.No.	Particulars of works	Quantity	Rate ha/Nos/Qtl/Rm	Amount (Rs.)
Ist yea	r Maintenance			
1.	Repair of stone pillar including stretching of B/wire	20	22.90/pillar	458.00
2.	Redigging of pits 45x45x45 cm	125	190.95/100	238.69
	30x30x30 cm	150	95.45/100	143.18
3.	Filling of pits 45x45x45 cm	125	109.40/100	136.75
	30x30x30 cm	150	76.35/100	114.52
4.	Carriage of plants over 2 km naked root	125	14.10/100m	35.25
	2 kmP/Bag	150	87.25/100m	261.75
5.	Planting of B.L. Plants	125	73.60/100	92.00
	Planting of raised in P/Bags	150	87.3/100	130.95
	Total			1611.09
6	Add 16.67% increase			268.57
	Total			1879.66
7.	Cost of Plant	275	4/plant	1100.00
	Total			2979.66
	Or say			2980.00
8	Protection cost of plantation area lumpsum			1000.00
	Grand Total			3980.00
	ar Maintenance		3086	3100.00
	ar Maintenance		2788	2800.00
4 <sup>th</sup> Year Maintenance			2490	2500.00
5 <sup>th</sup> Year Maintenance			2192	2200.00
	r Maintenance		1894	1900.00
7 <sup>th</sup> Yea	r Maintenance			1900.00
	Total Maintenance Cost (Rs./ha)			18380.00
	Grand Total (Rs./ha)			51880.00

Note: Protection cost of lumpsum Rs. 1000/- is also included in the maintenance (1<sup>st</sup> year to 7<sup>th</sup> year maintenance)

**TABLE-2.10** 

Cost model for replenishment afforestation

S.No.	Particulars of works	Quantity	Rate (Rs.)	Amount
1.	Survey and preparation of plantation including making sections, path and preparation of map	1 ha	40.95/ha	40.95
2.	Cutting and preparation of wooden posts 1.80 mtr Long and 8 to 10 cm dia including debarking and fastenining the top 15 cm in conical shape	80 No.	518.20/100	414.56
3.	Carriage of fence post upto 2 mtr. long	160 Nos	272.70/100	436.32

S.No.	Particulars of works	Quantity	Rate (Rs.)	Amount
	and 8 to 10 cm dia over distance 1 km			
4.	Preparation/digging of hols 20-30 cm dia and 45 cm deep	80 Nos.	362.80/100	290.24
5.	Fixing of wooden posts including strutting	80 Nos	278.45/100	222.76
6.	Carriage of B/wire over average distance of 1 km	1.50 Qtl	68.25/Qtl.	102.37
7.	Stretching and fixing of barbed wire with U-staples in each strand	1050 Rm	1.90 /Rm	1995.00
8.	Interlacing of thorny bushes in B/wire fence	250 Rm	1.65/Rm	412.50
9.	Preparation of inspection path 60 cm wide	150 Rm	4.35/Rm	652.50
10.	Layout of pits over	1 ha	68.15/ha	68.15
11.	Digging of pits 45x45x45 cm	200 Nos.	381.80/100	763.60
12.	Digging of pits 30x30x30 cm	500 Nos.	190.95/100	954.75
13.	Filling of pits 45x45x45 cm	200 Nos.	109.40/100	218.80
14.	Filling of pits 30x30x30 cm	500 Nos.	76.35/100	381.75
15.	Carriage of naked root plants over distance 2 kms	400 Nos.	14.10/100/m	56.40
16.	Carriage of plants in P/bags over distance 2 kms	1000 Nos.	87.25/100	872.50
17.	Planting of B.L. plants	200 Nos.	73.60/100	147.20
18.	Planting of plants raised in P/bags	500 Nos.	87.30/100	436.50
	Total			8466.85
19	Add increase	16.67%		1411.42
	Total			9878.27
20.	Add cost of B/wire including cost of U-nailes	1.50	4500	6750.00
21.	Add cost of plants	700	4.00	2800.00
22.	Add moisture retention intervention		3000/ha	3000.00
23.	Add protection cost of area	Lumpsum		500.00
24.	Add cost of fence post	Lumpsum		5000.00
	Total (Rs./ha)			27928.27
	Grand Total (Rs./ha)			28000.00
	Or say (Rs./ha)			33500.00

TABLE-2.11
Cost model for maintenance of replenishment afforestation

S.No.	Particulars of works	Quantity	Rate ha/Nos/Qtl/Rm	Amount (Rs.)
Ist year Maintenance				
1.	Redigging of pits 45x45x45 cm	50	190.95/100	95.47
	30x30x30 cm	125	95.45/100	119.31
2.	Filling of pits 45x45x45 cm	50	109.40/100	54.70
	30x30x30 cm	125	76.35/100	95.43
3.	Carriage of plants over 2 km naked root	50	14.10/100m	14.10
4.	Carriage of plants over 2 km P/Bag	125	87.25/100m	218.12
5.	Planting of B.L. Plants	50	73.60/100	36.80

S.No.	Particulars of works	Quantity	Rate ha/Nos/QtI/Rm	Amount (Rs.)
6.	Planting of plants raised in P/Bags	125	87.3/100	109.12
7.	Repair of B/wire Fencing	280	0.65 Rm	182.00
	Total			925.05
8.	Add 16.67% increase	rease		154.20
	Total			1079.25
9.	Cost of Plants	175	4.00/plant	700.00
	Total			1779.25
	Or say			1780.00
10.	Protection cost of plantation area			1000.00
	lumpsum			
	Grand Total			2780.00
2 <sup>nd</sup> Yea	r Maintenance		2246	2300.00
3 <sup>rd</sup> Yea	r Maintenance		2068	2100.00
4 <sup>th</sup> Yea	r Maintenance		1890	1900.00
5 <sup>th</sup> Yea	r Maintenance		1712	1750.00
6 <sup>th</sup> Yea	r Maintenance		1534	1550.00
7 <sup>th</sup> Yea	r Maintenance			1550.00
	Total Maintenance Cost (Rs./ha)			13930.00
	Grand Total (Rs./ha)			41930.00
	Or say (Rs./ha)			42,000.00

Note: Protection cost of lumpsum Rs. 1000/- is also included in the maintenance (1<sup>st</sup> year to 7<sup>th</sup> year maintenance)

TABLE-2.12

Cost model for treatment of pasture land alpine pastures

S.No.	Particulars of works	Quantity	Rate	Amount
			ha/Nos/Qtl/Rm	(Rs.)
1.	Survey and demarcation of pasture	1	40.95	40.95
	land including making			
2.	Weeding of obnoxious weeds over	1		2000.00
3.	Preparation of patches 60x60x25 cm	800	259.05	2072.40
4.	Sowing of seed in prepared patches	800	75.30/100	602.40
	60 x 60 x 25 cm			
5.	Application of fertilizer over 1 hac.	1		200.00
	Total			4915.75
6.	Add 16.67% increase			819.46
	Total			5735.21
7.	Cost of fertilizer and seeds			550.00
8.	Moisture retention interventions		2500.00	2500.00
	Total			8785.21
	Or say			8800.00

The cost required for Catchment Area Treatment is Rs.75.00 million. The details of cost required for implementation of biological and engineering treatment measures

are given in Tables -2.13 and 2.14. The yearwise physical and financial targets are given in Table-2.15. The details of area to be treated are given in Figure-2.5.

**TABLE-2.13** 

**Cost estimate for Catchment Area Treatment - Biological Measures** 

S.	Item	Rate	Target	
No.		(Rs.)	Physical	Financial (Rs. million)
1.	Replenishment Afforestation (800 trees/ha)	42,000/ha	561 ha	23.56
2.	Afforestation (1600 trees/ha)	52,000/ha	101 ha	5.25
3	Pasture Development	9,000/ha	794 ha	7.15
4.	Social forestry	70,000/ha	80 ha	5.60
5.	Fuel wood plantation	52,000/ha	40 ha	2.08
6.	Fodder grass plantation	9,000	40 ha	0.36
7.	Nursery development	200,000/no	5	1.00
8.	Maintenance of nursery	1,00,000/n o	5	0.50
9.	Watch and ward for 3 years for 10 persons	5000/man- month	360 man months	1.80
	Total			47.30

**TABLE-2.14** 

**Cost estimate for Catchment Area Treatment - Engineering Measures** 

S.	Item	Rate (Rs.)	Unit	Qty	Target	
No.				(No.)	Physical	Financial (Rs. million)
1.	Stepped drain	25000 RMT	25 RMT	7	175 RMT	4.38
2.	Check dams	200,000	-	15	15	3.00
3.	Contour bunding	25,000/ha	ha	401	401	10.03
	Total					17.41

# Total cost for Biological and Engineering measures = Rs.64.71 million (A) Administrative expenditure

Government Expenditure 3% of (A) = Rs. 1.94 million

(including O&M)

Establishment cost 8% of (A) = Rs. 5.18 million Contingency 5% of (A) = Rs. 3.24 million

Total Rs. 75.07 million say Rs. 75 million

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TABLE-2.15
Yearwise target (physical and financial) for Catchment Area Treatment Plan

S.	S. Treatment measure		Year-II		Year-III		Total		
No.		Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1.	Social Forestry	30 ha	2.10	30 ha	2.10	20	1.40	80 ha	5.60
2.	Fuel wood and Plantation	20 ha	1.04	20 ha	1.04	-	-	40 ha	2.08
3.	Nursery development	3 No.	0.60	2 No.	0.40	-	_	5 No.	1.00
4.	Maintenance of Nursery	-	_	-	0.25	-	0.25	-	0.50
5.	Watch and ward	120 man months	0.60	120 Man months	0.60	120 man months	0.60	360 man months	1.80
6.	Afforestation (1600 trees/ha)	101	5.25	-	-	-	-	1.01	5.25
7.	Pasture Development	250	2.25	250	2.25	294	2.65	794	7.15
8.	Replenishment afforestation 800 trees/ ha	200 ha	8.40	200 ha	8.40	161 ha	6.76	561 ha	23.56
9.	Fodder grass development	20 ha	0.18	20 ha	0.18	-	-	40 ha	0.36
10.	Contour bunding	201 ha	5.03	200 ha	5.00	-	-	401 ha	10.03
11.	Stepped Drain	175 m	4.38					175 m	4.38
12.	Check dam	10 No.	2.00	5 No.	1.00	-	-	15 No.	3.00
	Total		31.83		21.22		11.66		64.71

Note: Financial targets are in Rs. million

### CHAPTER-3

## FISHERIES MANAGEMENT PLAN

### 3.1 INTRODUCTION

A river valley project may have adverse or beneficial effects on the fish fauna, depending upon the particular situation and the fish fauna inhabiting the concerned river. Similarly it has various impacts on the people, the livelihood of which depends on the fish. The regulation of a river leads the fragmentation of habitat and may have adverse effects on indigenous and migratory fish. On the other hand pondage provides a large volume of water, which is beneficial with respect to fish culture and can play an important role in the upliftment of economic growth.

### 3.2 FISHERIES STATUS

The river Sainj and its tributaries have variety of cold water fishes dominated by trout. The cold water with high oxygen and rich benthic flora and fauna, river offers excellent habitat for breeding of these fishes. The field studies were conducted during the months of April 2007 (summer season), October 2007 (post-monsoon season) and winter season (January 2008). The following three species were observed at various sampling sites during the survey:

- Schizothorax richardsoni
- Salmo trutta fario
- Salmo gairdneri gairdneri

The fish catch composition observed the survey is given in Table 3.1. It is worthwhile to mention that above referred fish species were observed near power house site. However, at dam site only *Schizothorax richardsoni* was only observed.

TABLE-3.1 Fish catch composition observed during the survey

Scientific Name	Summer season	Post-monsoon season
Schizothorax richardsonii	80%	100%
Salmo trutta fario	10%	-
Salmo gairdneri gairdneri	10%	-

The major fish species reported in river Sainj and its tributaries are given in Table-3.2.

TABLE-3.2

Major fishes species reported in river Sainj and its tributaries

Scientific Name	Local Name
Schizothorax plagiostromus	Snow Trout
Schizothorax progastus	Snow Trout
Schizothorax richardsonii*	Snow Trout
Salmo trutta fario*	Brown trout
Salmo gairdneri gairdneri*	Rain bow trout
Barilius spp.	-
Nemacheilus spp.	-

**Note:** \* Fish species were also observed during the fisheries survey as well.

# **Fish Migration**

Schizothorax richardsonii is the only commercial species observed in river Sainj in the project area. This species in normal course of its life cycle undertakes long journey during winter months to migrate in the lower reaches in warmer waters. With the warming of water in the lower reaches, in summer season the species migrates towards the upstream reaches. During its upstream movement, in the months of May and June, this species breeds in the several side streams.

It was observed during the fisheries survey that all three species namely *Salmo truta* fario *Salmo gairdneri* and *Schizothorax richardsonii* were observed near the confluence of the Jiwa nallah. The presence of these species near confluence of Jiwa nallah indicates that there is a possibility of migration of these species in Jiwa nallah.

## **Spawning and breeding grounds**

There is no specific spawning or breeding ground observed in the study area. However, the presence of fingerling in the catch near confluence of Jiwa Nallah indicate the possibility of breeding in the area near the proposed power house area. Commercial fishing does not exist in Sainj. However, district Kullu is considered to be an angler's paradise and this sport is getting popular day by day. The surface water resources of Kullu district have been divided into two main categories:

- Angling Reserve Water
- Open Water

Sport fishery is practiced in Sainj river and mainly constitutes brown trout, (*Salmo trutta fario*) and rainbow trout (*Salmo gairdneri*). The game fishing observed in Sainj river mainly near confluence of Jiwa Nallah and Kartaul Khad. The crystal clear water, terrain and climate support good potential for the development of sport fishery in the area. The trout fish, which is most suitable for this area was introduced in the district in 1909 by G.C.L. Hovel and General Orborn. Since then, this variety of fish has spread to larger area in the main river Beas and its tributaries. The Sainj river comes in the former category and has been declared as trout water vide section 3(i) B Himachal Pradesh Fisheries Act 1976 and only sport fishing is allowed i.e. rod and line method only. The license for fishing is issued by the district fishery officer during the open season (i.e. from March to October) every year for the fees of Rs. 10, Rs. 50, and Rs. 350/- for Angling daily, weekly and yearly respectively. Rod and line method can be used with lures such as artificial fly, spinning bait with the limit of 6 trouts of minimum 35 cm size per day.

There are two hatcheries in the region. One of the hatcheries is at Patlikuhal, which was set up as a part of Indo-Norvegion trout farming project and about 60 km from

project site. The other hatchery is located at Nagani which is about 45 km from barrage site. About 5,000 to 6,000 fry of brown and rainbow trouts are stocked every year in river Sainj.

The pressure due to anglers in river Sainj and its tributaries so far has been negligible as compared to river Beas. The number of fishing licences issued during the year 2005 to 2007-08 are listed in Table-3.3.

TABLE-3.3
Number of fishing licences issued in the area

Year	No. of fishing licences issued
2005-06	432
2006-07	401
2007-08	605

Commercial fishing does not exist in Sainj. However, district Kullu is considered to be an angler's paradise and this sport is getting popular up day by day. The surface water resources of Kullu district have been divided into two main categories:

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- Open Water

Sport fisheries is practiced in river Sainj and mainly constitutes brown trout, (*Salmo trutta fario*) and rainbow trout (*Salmo gairdneri*). The crystal clear water, terrain and climate support good potential for the development of sport fishery in the area. The trout fish, which is most suitable for this area was introduced in the district in 1909 by G.C.L. Hovel and General Orborn. Since then, this variety of fish has spread to large area in river Beas and its tributaries. The Sainj river comes in the former category and has been declared as trout water vide section 3(i) B Himachal Pradesh Fisheries Act 1976 and only sport fishing using rod and line method is allowed. The license for fishing is issued by the district fishery officer during the open season (i.e. from March to October) every year with a fee of Rs. 10, Rs. 50, and Rs. *350/-* for angling on

daily, weekly and yearly basis respectively. Rod and line method can be used with lures such as artificial fly, spinning bait with the limit of 6 trouts of minimum 35 cm size per day. About 100 number of anglers visit the area every year during fishing season. It is evident from the available data that the sport fisheries are not very developed in the project area, the reason for which is the poor infrastructural facilities.

### 3.3 IMPACTS ON FISHERIES

## 3.3.1 Construction phase

The construction of the proposed Sainj hydroelectric project would involve large-scale extraction of different types of construction material from the riverbed including boulders, stones, gravel, sand, etc. Extraction of gravel and sand causes considerable damage to fish stocks and other aquatic life by destabilizing the substratum, increasing the turbidity of water, silting of the channel bottom and modifying the flow, which in turn may result in erosion of the river channel. These alterations would have a significant impact on the benthic fauna. The increased turbidity during extraction on dredging process will also increase the turbidity which is likely to last during the time dredging is undertaken. The suspended solids in excess of 100 ppm brought by suspended solids chokes the gills of young fish. Fine solids in concentration greater than 25 mg/l, adversely affects the development of fish eggs and fish. Normally, fish species migrate for the area and return to the site, only after the dredging or extraction activities are ones. This is a phenomenon reported in many projects and is expected in the proposed project.

## 3.3.2 Operation phase

Among the aquatic animals, it is the fish life, which would be most affected. The migratory fish species, e.g. snow trouts and brown trouts are likely to be adversely affected due to obstruction created by the proposed barrage. With the completion of barrage, flow in the downstream stretch of the river would be reduced considerably more so during the lean period. Such situation may adversely affect the benthic community and fish. The most important changes, which can be expected, are:

- Reduced flow rate
- Increase in water temperature
- Reduction in availability of stano-thermal aquatic animals
- Increase in population of euro-thermal species.
- Barrier to migration due to construction of barrage.

Unless the desired flow is maintained downstream of the barrage, aquatic ecology in general and fisheries in particular would be affected.

### 3.4 MANAGEMENT MEASURES

### 3.4.1 Release of minimum flow

The requirement of flow in the downstream is directly related to the water temperature. After construction of barrage on Sainj river the water is to be diverted for power generation. The tail race channel will confluence again about 8.5 km downstream of the barrage. However 0.63 cumec is proposed to be released from the barrage. The discharge shall be supplemented by contribution for the Kartol nallah (2.5 km downstream) joining river sainj on its right bank and other small khads joining the river from the left bank. These small khads include Kotli khad (4 km downstream), Shana khad (6 km downstream) and Nuhara khad (7.5 km downstream) of the barrage. The total discharge of these streams is about 1.4 cumec during lean season. The details of flow contributed by the above referred khads is given in Table-3.4.

Lean season flow from Nala/Khad joining between proposed barrage and confluence of tail race from power house

TABLE-3.4

Name of Khad	Flow from Khad (cumec)	Cumulative flow considering lean season releases from barrage
Kartaul Khad	0.6	1.23
Kotlu Khad	0.5	1.73
Shana Khad	0.1	1.83
Nuhra Khad	0.2	2.03
Total		

It is clear from Table-3.4, that sufficient releases will be maintained in the river stretch downstream of the barrage site upto the confluence of tail race from power house.

### 3.4.2 Sustenance of Endemic Fisheries

Various measures outlined for sustenance of riverine fisheries are described in the following paragraphs.

## a) Provision of fish ladder

Snow trout (*Schizothorax richardsonii*) is the endemic species. The barrage on Sainj will be a barrier to the free movement of fish species. Therefore a provision of fish ladder has been made in the barrage. 0.63 cumec flow to be released in the downstream through fish ladder. The cumulative flow in the downstream will be 2.03 cumec.

## b) Supplementary stocking

Since, *S. richardsonii* is categorized as vulnerable species amongst the threatened fishes of India, scientific management of the existing stock needs be adopted. The water-spread area in the proposed project is quite small and the proposed project is envisaged as runoff the river scheme, with significant diurnal variations. Hence, reservoir stocking is not recommended in the proposed project.

It is proposed to implement supplementary stocking programmes for the project area. It is proposed to stock the river for a length of 10 km each on the upstream and the downstream sides. The rate of stocking is proposed as 100 fingerlings of about 30 mm size per km. All the three species i.e. Snow trout, Brown trout and Rainbow trout can be stock. The stocking can be done annually by the Fisheries Department, State Government of Himanchal Pradesh. To achieve this objective, facilities to produce seed of trout would have to be created at suitable sites. The site would be identified in consultation with Fishery Department. The layout of the farm including dimension of the hatching nurseries and rearing unit has been shown in Figure-3.1.

## **3.4.3 BUDGET**

The total cost required for develop the facility for seed production may be **Rs. 13.23 million**. The detail of cost is given in Table-3.5.

TABLE-3.5

Component wise cost of fish seed Farm of trout proposed for Sainj Project

S.No.	Particulars	Qty.	Rate (Rs.)	Amount (Rs.million)
A.	Capital cost (Non-recurring expenditure)			
1.	Hatchery (20 troughs and 80 trays)	1	Lumpsum	0.500
2.	Nursery ponds (3.0mx0.75mx0.5m)	9	30,000	0.270
3.	Rearing ponds (10mx1.50mx0.5m)	9	50,000	0.450
4.	Stocking ponds (30m x 6.0m x 1.5m)	2	15000	0.300
5.	Office, store, hut with infrastructure	4	-	0.600
6.	Laboratory	1	-	0.200
7.	Water supply (lumpsum)	-	-	0.100
8.	Other project cost (Drag nets, wide mouth earthen pots, miniature hapa, buckets, bamboo poles etc.) (lumpsum)	-	-	0.100
	Total (A)			2.520

S.No.	Particulars	Qty.	Rate (Rs.)	Amount (Rs.million)
B.	Working Capital /year			
	(Recurring expenditure)			
1.	Salaries			
i)	Farm Manager (one) @ 25000/month			0.300
ii)	Farm Assistants (one) @ Rs. 15000/ month			0.180
iii)	Farm Attendants (one) @ Rs.10000/ month			0.120
iv)	Chowkidars (one) @ Rs. 10000/ month			0.120
2.	Fish food (rice bran, oil cake, etc.) Lumpsum			0.100
3.	Brooders	200 kg	150	0.300
4.	Ponds manuring			
i) ii)	Cow dung	20 tons	200/tons	0.004
ii)	Urea	100 kg	10/kg	0.001
iii)	Potash, phosphate	100 kg	100/kg	0.100
5.	Lime	300 kg	10/kg	0.030
6.	Training and Research	Lun	npsum	0.100
7.	Chemical	Lun	npsum	0.100
8.	Maintenance	Lun	npsum	0.100
9.	Travel	Lun	npsum	0.100
10	Miscellaneous	Lumpsum		0.100
	TOTAL (B)			1.755
	Total recurring expenditure for			10.71
	five year including 10%			
	escalation (B)			
	GRAND TOTAL (A+B)			13.23

The above facility can be developed and implemented by Fisheries Department at an appropriate site. Fishery department has a hatchery at Patlikool near Kullu, which is about 60 km from the proposed project site. The fishery department has proposed commissioning of a trout fish farm at Nagins (Banjar) located about 45 km from the proposed barrage site. The estimated amount for this facility is Rs. 13.23 million can be given to fishery department for up gradation of this farm. Seeds can be transported from this hatchery. The supply of seeds can be augmented by collecting them from natural sources. Since production, transportation and stocking of fish

material is a highly technical subject for which project proponent may not have the required expertise. Thus, implementation of this proposal may be done by the Fisheries Department and the project proponents can deposit the earmarked funds to the Fisheries Department.

#### CHAPTER-4

## **PUBLIC HEALTH DELIVERY SYSTEM**

# 4.1 INTRODUCTION

The data on major disease in the study area collected from PHC, District health officer and village Panchayat office. The primary data also collected by interview of the local people at the time of socio-economic survey. The prevalent disease are acute respiratory infection, diahorea and eye infection. Malaria and typhoid are not reported in the study area. The initial health assessment reveals that there is no specific health hazard in the study area. It was also observed that there are no vector borne disease are prevalent. How in protective strategy are to combat if such disease occur in future. Water pollution problems are not likely as the study area is devoid of industries however, there is a possibility that agriculture runoff could seep the flowing streams.

## 4.2 IMPACTS ON PUBLIC HEALTH

The construction of barrage may involve many diversified activities and require a large number of labors. The change in population density through immigrants/influx may cause new health problems in this region. People may carry different types of contagious diseases if any spread in locality. Influx of human work force may also bring stress on available drinking water sources and sanitary facilities. The additional domestic sewage generated may cause drinking water contamination resulting in spread of enteric diseases if not taken proper precautionary measures.

The proposed project would lead to increase in the water spread area with corresponding increase in shore line. This is expected to increase the incidence of malaria in project area and its surroundings. However, impacts on this account are not expected to be significant.

### 4.3 PUBLIC HEALTH DELIVERY SYSTEM

### 4.3.1 Control of malaria

The increase in water fringe area provides suitable habitats for the growth of vectors of various diseases and they are likely to increase the incidence of water-related diseases. Malaria is the water related major vector-borne disease. Thus, malaria control measures which aim at destroying the habitat and interrupting the life cycle by mechanical or biological or chemical means need to be implemented. Various Primary Health Centres in the nearby villages and Hospital at District Head Quarters can coordinate the anti-malarial operations in association with the project authorities. The suggested measures are given in following paragraphs:

- The site selected for habitation of workers should not be in the path of natural drainage.
- Adequate drainage system to dispose storm water drainage from the labour colonies should be provided.
- Adequate vaccination and immunization facilities should be provided for workers at the construction site.
- The labour camps and resettlement sites should be at least 2 km away from a main water body or quarry areas.

## 4.3.2 Development of medical facilities

A population of about 3,200 is likely to congregate during the construction phase. The labour population will be concentrated at two or three sites. There is no medical facility in the immediate vicinity of the project area. It is recommended that necessary medical facilities be developed at the project site. It is recommended that the dispensary should be developed during project construction phase itself, so that it can serve the labour population migrating in the area as well as the local population.

The details of manpower, infrastructure requirement for this dispensary are given as below.

# Manpower

Doctor : 1

Qualification: M.B.B.S./ M.D.

2 doctors can be employed in the dispensary and will reside in the staff quarters adjacent to the dispensary. The para-medical staff required for assistance to these doctors is given in Table-4.1.

TABLE-4.1
Details of Para-medical staff for Dispensary

Para medical staff	Number
Auxiliary Nurse	2
Male Multipurpose Health worker	2
Attendants	2
Driver	2
Total	10

## Infrastructure

A building shall be constructed to provide basic preventive, promotive and curative services to the labour colony with facilities for maternal and child health services, control of communicable diseases and medical care for minors. The building should have a waiting hall where 30-40 people can sit. The building would have place for the following:

- Two rooms for doctors
- One room for staff
- Two rooms for stores
- One general ward to accommodate 10 beds
- One minor operation theater/ dressing room
- One garbage with space for three vehicle

Residential accommodation is to be provided to the essential staff in the campus.

## Proposed Health Facilities at Construction sites and labour camp

It is possible that during the construction work, the technical staffs operating different equipment are not only exposed to the physical strain of work but also to the physical effects of the environment in which they are working. The workers and other technical staff may come up with common manifestations such as insect bites, fever, diarrhea, work exhaustion and other diseases. In addition they may invariably come up with injuries caused by accidents at work site. Under all circumstances, workers need immediate medical care.

A first-aid post is to be provided at each of the major construction sites, so that workers are immediately attended to in case of an injury or accident.

This first-aid post will have at least the following facilities:

- First aid box with essential medicines including ORS packets
- First aid appliances-splints and dressing materials
- Stretcher, wheel chair, etc.

### **Health Extension Activities**

The health extension activities will have to be carried out in the villages situated in the nearby areas. It is important to inculcate hygienic habits of environmental sanitation specially with respect to water pollution by domestic wastes. There would be possibility of the transmission of communicable diseases due to migration of labour population from other areas at the construction site.

The doctors from the dispensary should make regular visits to these villages and organize health promotional activities with the active participation of the local village Panchayat, NGOs and available local health functionaries. The health functionaries would undertake the following tasks as a part of health promotional activities:

- Collect water samples to ascertain the portability of water from different sources so as to monitor regular disinfection of drinking water sources.

- Maintain close surveillance on incidence of communicable diseases in these villages.
- Maintain close liaison with the community leaders and health functionaries of different departments, so that they can be mobilized in case of an emergency.

## **Cost estimates**

The costs estimated as follows are approximate and indicate the order of expenditure likely to accrue.

# **A.** Expenditure on salaries Dispensary

Post	Number	Monthly Emoluments (Rs.)	Annual Expenditure (Rs.)
Doctors	1	30,000	360,000
Nurse	2	10,000	240,000
Male Multi-purpose Health Workers	2	10,000	240,000
Attendants	2	5,000	120,000
Drivers	2	5,000	120,000
Total			1,080,000
First Aid Posts			
Health Assistants	2	10,000	240,000
Dressers	2	5,000	240,000
Total			480,000

Total Expenditure (A) = Rs.1,560,000

# B. Expenditure on Material and Supplies

# Dispensary Non-recurring

<ul> <li>i) 1 Vehicle (Closed Jeep) and</li> <li>ii) Furniture, etc.</li> <li>iii) Hospital equipment</li> <li>iv) Ambulance 2 No. and their maintenance for five years</li> </ul>	Rs. 1,00,000 Rs. 50,000 Rs. 5,00,000 Rs.20,00,000
Total	Rs.35,50,000

## Recurring

,	Drugs and Medicine, Contingencies 2 First-Aid Posts at construction sites	Rs. 300,000/yr Rs. 50,000/yr Rs. 36,000/yr
Total		Rs. 3,86,000/yr

## C. Infrastructure

<u>Dispensary</u>: Considering the number of rooms, staff quarters and open space etc., it is estimated that 5000 sq.feet (i.e. 465 sq.meter) of plot will be required for dispensary, out of which about 4000 sq.feet (375 sq.meter) will be the built-up land which includes staff quarters, etc. The construction cost for RCC structure will be Rs.400/sq.feet excluding land cost. The cost of construction of Dispensary will be Rs.1.6 million. The project proponents can purchase the land from the State Government. An amount of Rs.0.3 million can be earmarked for this purpose.

<u>2 First Aid Posts</u>: These are of temporary nature and will be constructed with asbestos sheets, bamboo, etc. It will cost @ Rs.100,000/First Aid Post. The total cost for constructing First Aid Posts will be of the order of Rs.0.2 million.

The total cost for developing the infrastructure will be (Rs.1.6 + Rs.0.3 + Rs.0.2 million) Rs.2.1 million.

## 4.4 BUDGET

The total expenditure for implementation of various public health measures shall be about Rs.**14.59 million**. The details are given as below:

# A. Recurring Expenditure

*	Expenditure on salaries	•	Rs. 1080,000/yr
*	Expenditure on materials & supplies	:	Rs. 386,000/yr

Sub-Total Rs. 14,66,000/yr

Total expenditure for 5 years (A) : Rs. 8.94 million

(considering 10% escalation per year period)

B. Non-Recurring Expenditure

\* Infrastructure (Construction of : Rs. 2.10 million

Dispensary & 2 First aid posts)

\* Expenditure on materials, supplies and : Rs. 3.55 million

equipment

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Total (B) Rs. 5.65 million

Total A + B Rs.14.59 million

In the DPR, a total provision of Rs. 9.4 million has been earmarked for development of health related infrastructure. The details are given in Table-4.2.

TABLE-4.2
Details of provision earmarked for health related infrastructure in DPR

S.No.	Item	Cost (Rs. million)
1.	Hospital equipment	3.0
2.	Medical assistance for 5 years	4.0
3.	Ambulance (2 Nos.)	0.95
4.	R&M Cost for Ambulance for 5 years	1.05
5.	Jeep (1 No.)	0.40
	Total	9.40

Thus, an additional provision of Rs. (14.59-9.40) 5.19 million needs to be earmarked for development of Public Health Delivery System.

### CHAPTER-5

### ENVIRONMENTALMANAGEMENT IN LABOUR CAMPS

### 5.1 INTRODUCTION

The aggregation of large number of works and technical labour in the project area during the construction of phase is likely to put considerable stress on the ecosystem of the area. The labour camps are likely to be concentrated near Kartaul village, near Adit-I, near barrage and near proposed power house sites. The aim of the EMP is to minimize these stresses. It should be made mandatory for the contractor to provide adequate facilities at the labour camp which are described in the following sections.

## 5.2 PROVISION OF HEATING

The contractor can make a block of two large rooms in which about 30-40 workers can stay. Community toilets for each block can be constructed close by. During winter months, a central heating system can also be provided, otherwise, workers will be forced to cut trees to meet the fuel requirements to heat the water required for various uses.

## 5.3 PROVISION OF WATER SUPPLY

The water for drinking purpose is collected from the rivers or streams flowing upstream of the labour camps. The water is stored in tanks and supplied for use. The water quality in general is good and does not require any elaborate treatment. However, it is proposed to disinfect the water prior to distribution. The settlements/labour camps shall be placed far from the drinking water sources.

# 5.4 SANITATION AND SEWAGE TREATMENT FACILITIES

One community latrine can be provided per 20 persons. The sewage from the community latrines can be treated in oxidation ditch. Each labour camp can be

provided with an Oxidation ditch. The treated effluent from oxidation ditch be disposed off in nearest water body. However, efforts shall be made to ensure, that treated effluent is disposed only in these water bodies, which are not used for meeting domestic water requirements.

The total construction time for the project is about 4 years. At peak construction phase, there will be an increase in population by 3,200. To ensure that the sewage from the labour camps do not pollute the river water, it has been estimated that about 160 community latrines and an oxidation ditch can be constructed for treatment. The total cost required will be Rs.4.4 million (refer Table-5.1).

TABLE- 5.1

Cost Estimate for sanitary facilities for labour camps

S. No.	Unit	Rate (Rs./unit)	Number	Total cost (Rs. million)
1.	Community latrines	20,000	160	3.20
2.	Oxidation ditch		-	1.20
	Total			4.40

## 5.5 SOLID WASTE MANAGEMENT FROM LABOUR CAMPS

The labour colony will be located at barrage site, powerhouse and at adit sites. During construction phase, about 800 labour and 200 technical staff is likely to congregate. The increase in population is expected to be of the order of 3,200. The solid waste likely to be generated from labour camps shall be of the order of 1.6 tonnes/day. Adequate facilities for collection, conveyance and disposal of solid waste need to be developed. The solid waste will be disposed at the designated landfill sites. A landfill can be designed in the way as given below, if we start from the bottom, bottom most layer is impervious clay, then second layer is impervious liner (Geomembrane), Third layer is sand, after that well compacted solid waste is to be put over the sand, then again a layer of clay, finally a layer of soil. Some vegetation

can be done at the top most layer. It will give a good aesthetic view of landfill.

Various aspects of solid waste management include:

- Refuse storage
- Collection and Transportation
- Disposal

## a) Refuse storage

In the proposed project, labour camps are proposed to be located at two or three location. In each of the labour colony, provisions shall be made to separately store the degradable and non-degradable solid waste.

A solid waste collection truck will be commissioned to collect the solid waste. Efforts will be made to separately collect the degradable and non-degradable solid waste. For this purpose workers will be provided with two separate dust bins to segregate the bio-degradable as well as non-biodegradable wastes. A sustained awareness programme will be conducted to educate worker about the segregation of degradable and bio-degradable wastes.

## **Disposal**

The degradable portion of the solid waste would be disposed off at the muck disposal sites. The non- degradable portion such as plastic bottles, cans etc. shall be segregated and disposed off at separate sites identified by the district administration. The total cost required for solid waste management is Rs.3.11 million. The details are given in Table-5.2.

TABLE-5.2
Cost estimates for solid waste management

S. No.	Item	Cost (Rs. million)
1	One covered truck for conveyance of solid waste to landfill site	1.00
2	Manpower cost for 4 persons @ Rs. 5000/ month for 5 years including 10% escalation/year	1.46
3	Reclamation and stabilization cost	1.00
4	Awareness programme	0.50
	Total	3.96

## 5.6 BUDGET

A total provision of (4.40 + 3.96) **Rs. 8.36 million** has been earmarked for Environmental Management in labour camp.

## 5.7 IMPLEMENTING AGENCY

Various measures recommended in this chapter shall be included in the contract document of the contractor involved in construction activities. The implementation of these measures shall be monitored by the project proponents. However, the sites for disposal of treated effluent from Oxidation ditch and solid waste shall be identified with district administration.

### **CHAPTER-6**

## **MUCK MANAGEMENT PLAN**

## 6.1 INTRODUCTION

A large quantity of muck is expected to be generated as a result of tunneling operations, construction of roads, etc. Muck generated from excavation of any project component is required to be disposed in a planned manner so that it takes a least possible space and is not hazardous to the environment. The muck disposal sites cause increased sedimentation in the rivers (though insignificant compared to natural sedimentation) and totally spoils the visual aesthetics of the area. It is of prime importance that these sites will have to be rehabilitated as soon as the disposal sites are full.

## **6.2 MUCK GENERATION**

The total quantity of muck expected to be generated has been estimated to be of the order of 1.14 Mm<sup>3</sup>. The component wise detail of muck to be generated are given in Table-6.1. Based on the geological nature of the rocks and engineering properties of the soil, a part of the muck can be used as construction material. However, the balance requires being suitably disposed. Normally, muck is disposed in low-lying areas or depressions. Trees, if any, are cut before muck disposal, however, shrubs, grass or other types of undergrowth in the muck disposal at sites perish. In the proposed project 0.4 Mm<sup>3</sup> muck is proposed to be disposed at different sites.

TABLE-6.1

Component use detail of muck to be generated

S. No.	Name of components where Muck/	Total Qty. of muck to be	Less qty @ 35% of the	Quantity of muck to be dumped on	Factor for increase	Total Quantity of muck	Net Quantity of muck		al capacity of dumping posed in different dumping s.		
	Debries is to be produced	produced in cum	muck to be used on various works	compaction basis (m³)	in muck quantity due to bulking (m³)	on the basis of increase due to bulking (m³)	to be dumped on the basis of increase due to bulking (m³)	SI. No	Dumping site	Capacity of dumping site (m³)	
1	Diversion Barrage	100800	35280	65520	1.40	91728	91728	1	Dumping site No1 at Niharni	116864.00	
2	Intake structure	1200	420	780	1.40	1092	1092	2	Dumping site No2 at Kartaul	163431.00	
3	Desanding arrangement	104300	36505	67795	1.40	94913	94913	3	Dumping site No3 at Sambha	41439.00	
4	Head Race Tunnel	136300	47705	88595	1.40	124033	124033	4	Dumping site No4 at Kartah	231306.00	
5	Surge Shaft	20300	7105	13195	1.40	18473	18473	5	Dumping site No5 at Dharmehara	507035.00	
6	Pressure Shaft	14000	4900	9100	1.40	12740	12740	6	Dumping site No6 at Karehala near Surge Shat.	42323.00	

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S. No.	Name of components where Muck/	Total Qty. of muck to be	Less qty @ 35% of the	muck to be dumped on	Factor for increase	Total Quantity of muck	Net Quantity of muck		I capacity of dumping osed in different dumping s.		
	Debries is to be produced	produced in cum	muck to be used on various works	compaction basis (m³)	in muck quantity due to bulking (m³)	on the basis of increase due to bulking (m³)	to be dumped on the basis of increase due to bulking (m³)	SI. No	Dumping site	Capacity of dumping site (m³)	
7	Power House Complex	84800	29680	55120	1.40	77168	77168	7	Dumping site No7 at Suind near TRT.	58686.00	
8	Tail Race Tunnel	12400	4340	8060	1.40	11284	11284				
9	Roads	331500	116025	215475	1.40	301665	301665				
	Total	805600	283960	523640		733096	733096	Tot	al capacity in cum	1161084	

## 6.3 DISPOSAL OF MUCK AND RECLAMATION OF MUCK DISPOSAL SITES

As per the existing proposal for the construction of Sainj hydroelectric project about 0.805 Mm³ of muck is to be generated. It is proposed that 0.283 Mm³ of muck shall be utilized for various project works, e.g., production of aggregates, leveling of roads by providing filling in some reaches, development of work sites, construction area facilities, construction of retaining walls along dumping area. Coffer dam and various other protection work. Hence the balance quantity of muck to be disposed off shall be about 0.523 Mm³, which goes up to 0.733 Mm³ after increased in volume due to bulking @ 40% increased. For the disposal of muck, seven (7) muck disposal sites with a total area of about 10.729 ha have been identified. The capacity of these sites, their location and distance from the muck generation area have been described in Table-6.2. The proposed dumping sites shall be enough to cater the generated quantity of muck.

The dumping of muck will be done in the scientific manner by providing appropriate protection walls with deep foundations so that muck will not flow and washed away in the river Masonry work, create work and check dam will also be provided wherever necessary in order to avoid the chances of soil erosion and to ensure flow of silt, free water. The reclamation plan of these site has been shown in Figure-6.1. Besides these engineering measures, proper plantation will be done at the dumping sites for reclamation of the dumping areas.

TABLE-6.2
Capacity, location and distance of Dumping site from the Muck Generation sites

S.No.	Name of	Qty. of	Name of		Location of	Slope of	Distance of		Height of	Area	Remarks
	Component from where muck is to be produced	muck is proposed to be dumped	dumping place/site	of Dumping place/site	dumping place/site vill/police station & nearby road	dumping area	dumping place/site from near by river with name of river	retaining wall	dumping proposed beyond retaining wall (ha)	(ha)	
1	2	3	4	5	6	7	8	9	10	11	12
1.	Diversion Barrage										
		91728	D-1 at	1,16,864	D-1 situated of	1:15	5 mtr from	6.00 mtr	4.50	0.762	
i)	Intake structure	1092	Niharni		Niharni, right bank of		HFL in				
ii)	HRT 700 mtr	13781			river Sainj P.O. Neuli,		Horiz. &				
iii)	Desanding arrangements	10000			Police Station Sainj		Vert. of Sainj river				
	Total	116601									
2 i)	Desanding Arrangements	84914	D-2 & D-3 at Kartaul &	163431 41439	D-2 & D-3 situated along Kartaul nallah	1:15	5 mtr from	6.00	4.50	2.044 + 0.592	
ii)	HRT 2400 mtr	47250	Sambha	204870	away from Sainj Khad i.e. Sambha about 20 mtr and Kartaul site about 300 m		Horiz. & Vert. of Kartaul nallah				
3.	HRT 3200 mtr.	63001	D-5 at Dharmehar a beside Dry Nallah	507035	D-5 at Dharmehara P.O. & Police Station Sainj near by Sainj Neuli Road	1:15	100 to 450 m away from Sainj river	6.00	4.50	4.08	
4.	Surge Shaft	18473	D-6 at Karehala near S/shaft	42323	D-6 situated at Village Karenala P.O. Sainj	1:15	500 m away from Sainj river	6.00	4.50	0.666	
5.	Pressure Shaft	12740	D-7 at Seuind	58686	D-7 situated at Village Seuind right bank of Sainj river P.O. Sainj	1:15	5 mtr from HFL in Horiz. & Vert. of Sainj river			0.74	
6. i)	Power house	77168	D-4 at	231306	D-4 situated at Kartah	1:15	5 mtr from	6.00	4.50	1.845	
ii)	Tail Race Tunnel	11284	Kartah		P.O. and Police station, Sainj		HFL in Horiz. & Vert. of Sainj river				
	Total	88452					IIVEI				
	ıvlai	00402	1			I	1				I

S.No.	Name of Component from where muck is to	proposed	Name of dumping place/site	Capacity of Dumping place/site	Location of dumping place/site vill/police station &	Slope of dumping area	Distance of dumping place/site	Height of retaining wall	Height of dumping proposed	Area (ha)	Remarks
	be produced	to be dumped		piace/site	nearby road		from near by river with name of river		beyond retaining wall (ha)		
1	2	3	4	5	6	7	8	9	10	11	12
7	Roads	301665	D-2, D-4, D-5, D-6 & D-7	231306	D-4 situated at Kartah P.O. & Police station, Sainj	1:15					
	Total	733096		1161084	-					10.729	

Muck generally lacks nutrients and therefore, are difficult to re-vegetate. However, if no attempts to vegetate the slopes are made, the muck could slide lower down during rain and may eventually wash off the check dams also. Since, top soils are not available in large quantities in Himalayas, it may not be possible to apply a thin layer of soil over the muck. Bio-fertiliser technique developed by National Environmental Engineering Research Institute (NEERI) can be adopted in the proposed project. NHPC has successfully used this technique in Uri hydroelectric project. Similar approach can be utilized in the proposed project as well. In this process, the unused excavated material is piled and stacked with proper slopes at the designated muck disposal sites. The slopes are broken up by creating benches across them. This is done to provide stability to the slopes and also to provide ample space for planting of trees that would further help in holding and consolidating biotechnological approach. The traditional methods of afforestation of these areas would be supplemented with the use of fungus, i.e. Vesicular Arbuscular Mycorrizae (VAM) and nitrogen fixing bacteria that form partnership with plant roots. These grow on plant roots and provide water and nutrition especially phosphorus to plants at faster rate. The seeding of plants would be inoculated with VAM and nitrogen fixing bacteria before planting. It has been found that plants inoculated with bio-fertilizers grow at faster rate especially in the medium where the soil/rock is devoid of nutrients.

The afforestation with suitable plant species shall be done. About 1000-1200 trees/ha shall be planted. Major species recommended for plantation are listed in Table-6.3.

TABLE-6.3

Species recommended for plantation over muck disposal site

Botanical Name	Local Name	
Trees		
Betula alnoides	Bhoj patra	
Populus ciliate	Popular	
Pinus roxburghii	Chir	
Cedrus deodara	Deodar	
Salix acutifolia	Bhains	
Shrubs		
Artemisia nilgarica	Kunja	
Berbaris aristata	Kingor	
Berberis lyceum	Kingor	
Rosa Moschata		

# 6.4 BUDGET

The total expenditure required for stabilization of muck disposal sits has been estimated to be of the order of **Rs.9.75 million**. The details are given in Table-6.4.

TABLE-6.4

Break-up of cost for stabilization of muck disposal sites

S.	Items	Cost
No.		(Rs. million)
1	Construction of check dams along river banks @ Rs. 2.0 million/km for a stretch of 3.0 km.	6.00
2	Preparation of muck disposal site@ Rs. 0.05 million/ha for 10.73 ha	0.54
3	Provision of 15 cm soil layer over an area of 10.73 ha @ Rs. 0.15 million/ha	1.60
4	Development of vegetation over an area of 10.73 ha@ Rs. 150,000/ha	1.61
	Total	9.75

## RESTORATION AND LANDSCAPING OF CONSTRUCTION SITES

## 7.1 INTRODUCTION

The landscape and restoration plan targets towards overall improvement in the condition of the area. The landscape plan provides benefits to improve beautification and its utility. All the activities are aimed at restoring the areas where scars would be formed. The restoration would prevent soil erosion enhance forest cover and stabilize degraded areas.

### 7.2 QUARRYING OPERATIONS

A project of this magnitude would require significant amount of construction material.

The details are given in Table-7.1.

Detail of Construction Material Required

TABLE-7.1

Material	Quantity
Coarse aggregate	0.111 Mm <sup>3</sup>
Fine aggregate	0.066Mm <sup>3</sup>
Cement	63800 ton
Structural steel	1000 ton
Reinforced steel	10400 ton
BQ steel	1190 ton

The aggregate requirement for concrete is proposed to be met from quarry which has already been acquired for Larji Project and the same shall be utilized for the Sainj project as well. The quarry site is located at Silly Larji and about 30 km from the barrage site. The quarry has an area of 3 ha. A part of the concrete can be met by using the muck generated during excavation of the tunnel, powerhouse and other project appurtenances, by crushing it into the required size. The quantum of muck

utilization as construction material would depend on the engineering properties of the muck and its suitability for construction.

The quarrying operations are semi-mechanized in nature. Normally, in a hilly terrain like Himanchal Pradesh, quarrying is normally done by cutting a face of the hill. A permanent scar is likely to be left, once quarrying activities are over. With the passage of time, the rock from the exposed face of the quarry under the action of wind and other erosion forces, get slowly weathered and after some time, they become a potential source of landslide. Thus it is necessary to implement appropriate slope stabilization measures to prevent the possibility of soil erosion and landslides in the quarry sites.

Similarly, the proposed project would require significant amount of fine material, which can be met either by crushing the aggregates or by excavation from borrow areas. In the proposed project, large quantity of fines shall be required, which would entail excavation from borrow pits. Normally, such sites are left untreated after excavation of the construction material. The pit so created impedes the natural drainage, increases the potential for soil erosion and stores rain water and runoff. These pools of water can serve as habitats for proliferation of mosquitoes, which can lead to increased incidence of vector-borne diseases.

## 7.3 RESTORATION PLAN FOR QUARRY SITE AND BORROW AREA

The following biological and engineering measures are suggested for the restoration of quarry site:

- Garland drains around quarry site to capture the runoff and divert the same to the nearest natural drain.
- Construction of concrete guards check the soil erosion of the area.
- The pit formed after excavation be filled with small rocks, sand and farmyard manure.

- Grass slabs will be placed to stabilized and to check the surface runoff of water and loose soil.

At the present level of investigations a tentative provision of Rs.3.50 million can be earmarked for quarry slope stabilization. The details are given in Table-7.2.

TABLE-7.2

Cost estimate for restoration of quarry site and borrow area S. **Activities/purpose** Cost No. (Rs. million) 1. Filling up the land with soil 1.00 2. Cost of green manure 0.40 3. Cost of sapling (10,000 saplings/ha) @ Rs.5.00 per 0.05 sapling 4. Cost of fertilizers and pesticides 0.40 Fencing with RCC pillars and barbed wire 0.30 5. Maintenance activities including cleaning of weeds @ 0.25 6. Rs.50,000 for 5 years 7. 0.10 Digging of pits Construction of garland drain 1.0 8. Total 3.50

#### 7.4 LANDSCAPING AND RESTORATION PLAN

### Area for landscaping

The working area of barrage site, power house complex colony area have been selected for beautification of the project area after construction is over.

The reservoir created due to the construction of barrage may be a local point of tourist attraction. This could be used for sport fishing, so there is a need to construction of benches for sitting, development of resting sheds and footpath. The beautification would be carried out by developing flowering beds for plantation ornamental plant and flower garden.

There would be sufficient open space in power house complex and colony area. Forested area in the power house complex would provide aesthetic view and add to natural seismic beauty. The beautification in the colony area would be carried out by development of flowering beds for plantation of ornamental plant, creepers, flower

garden and a small park, construction of benches for sitting, resting sheds, walk way and fountain.

## **Species for beautification**

The species identified for beautification of the area are given in Table-7.3.

Species have been identified for beautification the area

TABLE-7.3

Common Name	Scientific Name
Bouganvilla	Bougainvillaea spectabilis
Dikamali	Gardenia gummifera
Mehndi	Myrtus communis
Chirpine	Pinus roxburghii
Deodar	Cedrus deodara
Poplar	Populus ciliate
Walnut	Juglans regia
Kail	Pinus wallichiana
Sita Ashok	Saraca indica
Satian	Alstonia scholoris

A provision of **Rs.5.0 million** has been earmarked for landscaping and beautification of the area.

### 7.5 BUDGET

A total provision of (3.50 + 5.00) **Rs. 8.50 million** (has been earmarked for Restoration of quarry and borrow area, reclamation of construction sites landscaping and beautification.

## **ENVIRONMENTAL MANAGEMENT IN ROAD CONSTRUCTION**

### 8.1 INTRODUCTION

The project construction would entail significant vehicular movement for transportation of large construction material, heavy construction equipment. Some of the existing roads in the project area, would require widening. The existing road from Suind to Neuli has also been proposed to be widened. New access roads would have to be constructed. Approach roads 5/7 m wide of total length 19.50 km will be constructed to connect different sites of the project. The details of proposed road to be constructed are given in Table-8.1.

TABLE-8.1

Details of roads proposed to be constructed

Description	Length (km)
5/7 m wide road from Neuli to Barrage	4.0
5/7 m wide road to decending basin and intake	0.5
5/7 m wide road from Sambha to deflushing tunnel & HRT adit-	2.0
I at Kartaul nallah	
5/7 m wide road from Suind to bottom of surge shaft	7.0
5/7 m wide road from bottom of the surge shaft to top of surge	2.5
shaft	
7/10 m wide road from Suind to MAT and tail race	1.5
5/7 m wide road from quarry sites, dumping areas & colony etc.	2.0
Widening of existing road from Suind to Neuli (from 2.75/5m to	8.0
5/7m)	
Total	19.5

## 8.2 IMPACTS DUE TO CONSTRUCTION OF ROADS

The construction of roads can lead to the following impacts:

The topography of the project area has steep to precipitatuous slope, which
descends rapidly into narrow valleys. The conditions can give rise to erosion
hazards due to net downhill movement of soil aggregates.

- Removal of trees on slopes and re-working of the slopes in the immediate vicinity of roads can encourage landslides, erosion gullies, etc. With the removal of vegetal cover, erosive action of water gets pronounced and accelerates the process of soil erosion and formation of deep gullies. Consequently, the hill faces are bared of soil vegetative cover and enormous quantities of soil and rock can move down the rivers, and in some cases, the road itself may get washed out.
- Construction of new roads increases the accessibility of a hitherto undisturbed areas resulting in greater human interferences and subsequent adverse impacts on the ecosystem.
- Increased air pollution during construction phase.

### **8.3 MANAGEMENT MEASURES**

The approach roads will have to be constructed as a part of the access to the construction site. In a hilly environment, construction of roads sometime disturbs the scenic beauty of the area. In addition, landslides are often triggered due to road construction because of the loosening of rocks by water trickling from various streams. A total length of 19.5 km of new roads needs to be constructed as a part of the proposed project.

Steeply sloping banks are liable to landslides, which can largely be controlled by provision of suitable drainage. The basic principle is to intercept and divert as much water as possible, before it arrives at a point, where it becomes a nuisance. The other erosion hazard is that of surface erosion of the bank, which is best controlled by vegetation. However, in a steeply sloping terrain, difficulty lies in growing vegetation on steeply sloping banks. Engineering solutions such as surface drainage, sub-surface drainage, toe protection and rock bolting can be used.

Landslides can be stabilized by several methods-engineering or bioengineering measures alone or a combination of these. The cost required for implementation of various measures has already been incorporated in the overall budget earmarked for construction of roads.

In hilly terrain, road construction often generates significant quantity of wastes (muck) due to the stripping of the rocks to make way for the roads. The stripped muck is generally cleared by dumping the material along the slopes. These dumped material finally flow down to the valleys and ultimately finds its way to the river. However, it is recommended to adopt a more systematic approach. The stripped material should be collected and dumped in the designated muck disposal area, which will have check dams to prevent the muck to flow down into the river. After disposal operation is complete at the dumpsite, the dump yard should be contoured and vegetated.

The various aspects to be considered while making the project roads are briefly described in the following paragraphs.

### Construction

- Area for clearing and grubbing shall be kept minimum subject to the technical requirements of the road. The clearing area shall be properly demarcated to save desirable trees and shrubs and to keep tree cutting to the minimum.
- Where erosion is likely to be a problem, clearing and grubbing operations shall be so scheduled and performed that grading operations and permanent erosion control of features can follow immediately thereafter, if the project conditions permit; otherwise temporary erosion control measures shall be provided between successive construction stages. Under no circumstances, however, should very

large surface area of erodible earth material be exposed at any one time by clearing and grubbing.

- The method of balanced cut and fill formation shall be adopted to avoid large difference in cut and fill quantities.
- The cut slopes shall be suitably protected by breast walls, provision of flat stable slopes, construction of catch water and intercepting drains, treatment of slopes and unstable areas above and underneath the road, etc.
- Where rock blasting is involved, controlled blasting techniques shall be adopted to avoid over-shattering of hill faces.
- Excavated material should not be thrown haphazardly but dumped duly dressed up in a suitable form at appropriate places where it cannot get easily washed away by rain, and such spoil deposits may be duly trapped or provided with some vegetative cover.

## Drainage

- Drainage of the water from hill slopes and road surface is very important. All
  artificial drains shall be linked with the existing natural drainage system.
- Surface drains shall have gentle slopes. Where falls in levels are to be negotiated, check dams with silting basins shall be constructed and that soil is not eroded and carried away by high velocity flows.
- Location and alignment of culverts should also be so chosen as to avoid severe erosion at outlets and siltation at inlets.

## **Grassing and Planting**

 Tree felling for road construction/works should be kept bare minimum and strict control must be exercised in consultation with the Forest Department. Equivalent amount of new trees should be planted as integral part of the project within the available land and if necessary, separate additional land may be acquired for this purpose.

 Depending on the availability of land and other resources, afforestation of roadside land should be carried out to a sufficient distance on either side of the road.

## 8.4 BUDGET

An amount of **Rs. 8.84 million** has been earmarked for implementation of measures to mitigate adverse impacts due to construction of roads. The details are given in Table-8.2.

TABLE-8.2

Details of expenditure for implementation of measures for management of Impacts due to construction of roads

S. No.	Item	Cost (Rs. million)
1.	Clearing and grubbing @ Rs.0.05 million/km for 19.5 km	0.98
2.	Provision of breast walls, construction of catch water and interceptor drains @ Rs.0.30 million/km for 19.5 km	5.90
3.	Provision of drainage system along roads @ Rs.0.05 million/km for 19.7 km	0.98
4.	Roadside plantation, Jute matting etc. @ Rs.0.05 million/km for 19.5 km	0.98
	Total	8.84

#### GREENBELT DEVLOPMENT PLAN

### 9.1 INTRODUCTION

The greenbelt development plan aims to overall improvement in the environmental conditions of the region. The plan with a five-fold objective addresses issues such as prevention of land degradation due to activities during construction phase; enhancing the forest cover for increasing the biodiversity of the region; providing aesthetic value to the project area and consequently inviting a proportionate tourist flux; enhancing the ecological equilibrium of the area; and to a large proportion in combating soil erosion. Although the forest loss due to reservoir submergence and other project appurtenances have been compensated as a part of compensatory afforestation. It is proposed to develop greenbelt around the periphery of various project appurtenances, selected stretches along reservoir periphery.

#### 9.2 NEED FOR GREENBELT DEVELOPMENT PLAN

The green belt on either side of the reservoir will reduce the sedimentation and ensure protection of the reservoir area from any other human activity that could result in the reservoir catchment damage. The forest stands of conifers and mixed broad leaf on the steep slopes of both the banks will be treated as the natural green belt around that part of the reservoir. On moderately steep slopes tree species will be planted for the creation of green belt which are indigenous, economically important, soil binding in nature and an thrive well under high humidity and flood conditions.

## 9.3 SCHEME FOR GREENBELT DEVELOPMENT

The scheme of plantation around the reservoir is given as follows:

- i) The green belt will start from the immediate vicinity of the reservoir rim on both the banks, up to the tail of the reservoir moderately steep slopes are available for plantation.
- land features allow. There would be at least 2-3 layers of plantation. The plantation will start along 1755 m contour level and would go up to 1795 m contour level from the barrage axis up to the tail of the river.
- iii) The row of tree species nearest the rim will constitute water loving species, preferably *Alnus nitida*, *Salix* spp., *Populus* spp. These species will thrive very well at these altitudes.
- iv) Towards higher altitudes of the reservoir the rows around the reservoir may include *Aesculus indica*, *Populus ciliata*, in addition to *Salix* spp.
- v) The middle rows of the green belt will comprise species like *Juglans regia*,

  Acer pictum, Celtis tetrandra.
- vi) The outermost layer of the green belt will constitute of hardly tree species and shrub by mix to withstand any external influences/pressures of grazing, browsing by cattle and sheep, etc. The species best suited for this layer at lower altitudes are *Prunus cornuta, Rhododendron aroboreum, Pinus wallichiana, Abies pindrow* and towards higher reaches the outer layers will comprise *Quercus dilatata, Acer caesium, Lyonia ovalifolia, Viburnum cotonifolium, Ulmus wallichiana and Aesculus indica.*

vii) The green belt will be put under a protective regulatory framework to ensure that it is not degraded or disturbed. No ecologically disruptive activity will be allowed in this zone.

## 9.3 BUDGET

The plantations would be carried out on an approximate area of 40 ha. This work would be completed in two years at an estimated cost of **Rs.4.0 million** at the rate of Rs.100,000/- per ha which includes the cost of nursery creation, advance works, actual plantations and maintenance. The plantation for this purpose will be carried out by Forest Department.

## **CONTROLOF AIR POLLTION**

### 10.1 IMPACTS ON AIR QUALITY

In a water resources project, air pollution occurs mainly during project construction phase. The major sources of air pollution during construction phase are:

- Fuel combustion in various construction equipment, e.g. crushers, drillers, rock bolters, diesel generating vehicles, etc.
- Fugitive emissions from crusher
- Impacts due to vehicular movement

## a) Pollution due to fuel combustion in various equipment

The operation of various construction equipment requires of combustion of fuel. Normally, diesel is used in such equipment. The major pollutant, which gets emitted as a result of diesel combustion, is  $SO_2$ . The SPM emissions are minimal due to low ash content. Based on past experience in similar projects, SPM and  $SO_2$  are not expected to increase significantly. Thus, in the proposed project, no significant impact on ambient air quality is expected as a result of operation of various construction equipment.

## b) Emissions from various crushers

The operation of the crusher during the construction phase is likely to generate fugitive emissions, which can move even up to 1 km in predominant wind direction. During construction phase, one crusher each is likely to be commissioned at the barrage and powerhouse sites. During crushing operations, fugitive emissions comprising of the suspended particulate will be generated. There could be marginal impacts to settlements close to the sites at which crushers are commissioned. However, based on past experience, adverse impacts on this account are not anticipated. However, during finalizing the project layout, it should be ensured that the labour camps, colonies, etc.

are located on the leeward side and outside the impact zone (about 1.5 to 2 km) of the crushers.

## c) Impacts due to vehicular movement

During construction phase, there will be increased vehicular movement for transportation of various construction materials to the project site. Large quantity of dust is likely to be entrained due to the movement of trucks and other heavy vehicles. However, such ground level emissions do not travel for long distances. Thus, no major adverse impacts are anticipated on this account.

### **10.2 MITIGATION MEASURES**

## a) Control of Emissions

Minor air quality impacts will be caused by emissions from construction vehicles, equipment and DG sets, and emissions from transportation traffic. Frequent truck trips will be required during the construction period for removal of excavated material and delivery of select concrete and other equipment and materials. The following measures are recommended to control air pollution:

- The contractor will be responsible for maintaining properly functioning construction equipment to minimize exhaust.
- Construction equipment and vehicles will be turned off when not used for extended periods of time.
- Unnecessary idling of construction vehicles to be prohibited.
- Effective traffic management to be undertaken to avoid significant delays in and around the project area.
- Road damage caused by sub-project activities will be promptly attended to with proper road repair and maintenance work.

## b) Air Pollution control due to DG sets

The Central Pollution Control Board (CPCB) has issued emission limits for generators upto 800 KW. The same are outlined in Table-10.1, and are recommended to be followed.

TABLE-10.1
Emission limits for DG sets prescribed by CPCB

Parameter	Emission limits (gm/kwhr)
NOx	9.2
HC	1.3
CO	2.5
PM	0.3
Smoke limit*	0.7

Note: \* Light absorption coefficient at full load (m<sup>-1</sup>)

The above standards needs to followed by the contractor operating the DG sets.

## c) Dust Control

The project authorities will work closely with representatives from the community living in the vicinity of project area to identify areas of concern and to mitigate dust-related impacts effectively (e.g., through direct meetings, utilization of construction management and inspection program, and/or through the complaint response program). To minimize issues related to the generation of dust during the construction phase of the project, the following measures have been identified:

- Identification of construction limits (minimal area required for construction activities).
- When practical, excavated spoils will be removed as the contractor proceeds along the length of the activity.
- When necessary, stockpiling of excavated material will be covered or staged offsite location with muck being delivered as needed during the course of construction.

- Excessive soil on paved areas will be sprayed (wet) and/or swept and unpaved areas will be sprayed and/or mulched. The use of petroleum products or similar products for such activities will be strictly prohibited.
- Contractors will be required to cover stockpiled soils and trucks hauling soil, sand, and other loose materials (or require trucks to maintain at least two feet of freeboard).
- Contractor shall ensure that there is effective traffic management at site. The number of trucks/vehicles to move at various construction sites to be fixed.
- Dust sweeping The construction area and vicinity (access roads, and working areas) shall be swept with water sweepers on a daily basis or as necessary to ensure there is no visible dust.

## 10.3 IMPLEMENTING AGENCY

Various management measures needs to be implemented for Control of air pollution control need to be included in the Tender Document for the Contractor involved in construction activities. The same shall be monitored on a regular basis by the project proponents.

## MEASURES FOR NOISE CONTROL

### 11.1 IMPACTS ON NOISE LEVELS

In a water resource projects, the impacts on ambient noise levels are expected only during the project construction phase, due to earth moving machinery, etc. Likewise, noise due to quarrying, blasting, vehicular movement will have some adverse impact on the ambient noise levels in the area.

#### 11.2 MITIGATION MEASURES

The contractors will be required to maintain properly functioning equipment and comply with occupational safety and health standards. The construction equipment will be required to use available noise suppression devices and properly maintained mufflers.

- vehicles to be equipped with mufflers recommended by the vehicle manufacturer.
- staging of construction equipment and unnecessary idling of equipment within noise sensitive areas to be avoided whenever possible.
- use of temporary sound fences or barriers to be evaluated.
- notification will be given to residents within 300 feet of major noise generating activities. The notification will describe the noise abatement measures that will be implemented.
- monitoring of noise levels will be conducted during the construction phase of the project. In case of exceeding of pre-determined acceptable noise levels by the machinery will require the contractor(s) to stop work and remedy the situation prior to continuing construction.

The following Noise Standards for DG sets are recommended for the running of DG sets during the construction:

- The maximum permissible sound pressure level for new diesel generator sets with rated capacity upto 1000 KVA shall be 75 dB(A) at 1 m from the enclosure surface.
- Noise from the DG set should be controlled by providing an acoustic enclosure or by treating the enclosure acoustically.
- The Acoustic Enclosure should be made of CRCA sheets of appropriate thickness and structural/ sheet metal base. The walls of the enclosure should be insulated with fire retardant foam so as to comply with the 75 dBA at 1m sound levels specified by CPCB, Ministry of Environment & Forests.
- The acoustic enclosure/acoustic treatment of the room should be designed for minimum 25 dB(A) Insertion Loss or for meeting the ambient noise standards, whichever is on the higher side.
- The DG set should also be provided with proper exhaust muffler with insertion loss of minimum 25 dB(A).
- Proper efforts to be made to bring down the noise levels due to the DG set, outside its premises, within the ambient noise requirements by proper siting and control measures.
- A proper routine and preventive maintenance procedure for the DG set should be set and followed in consultation with the DG set manufacturer which would help prevent noise levels of the DG set from deteriorating with use.

### Noise due to crushers

Based on literature review, noise generated by crushers is in the range of 79-80 dB(A) at a distance of 250 ft or 80 m from the crusher. Thus, noise level at a

distance of 2 m from the crusher shall be of the order of 110 dB(A). The exposure to labour operating in such high noise areas shall be restricted upto 30 minutes on a daily basis. Alternatively the workers need to be provided with ear muffs or plugs, so as to attenuate the noise level near the crusher by atleast 15 dB(A). The exposure to noise level in such a scenario is limited upto 4 hours per day.

It is known that continuous exposure to noise levels above 90 dB(A) affects the hearing of the workers/operators and hence has to be avoided. Other physiological and psychological effects have also been reported in literature, but the effect on hearing acuity has been specially stressed. To prevent these effects, it has been recommended by international specialist organizations that the exposure period of affected persons be limited as specified in Table-11.1.

TABLE-11.1

Maximum Exposure Periods specified by OSHA

Maximum equivalent continuous noise level dB(A)	Unprotected exposure period per day for 8 hrs/day and 5 days/week
90	8
95	4
100	2
105	1
110	1/2
115	1/4
120	No exposure permitted at or above this level

## WATER POLLUTION CONTROL

### 12.1 CONTROL OF WATER POLLUTION DURING CONSTRUCTION PHASE

During project construction phase, sufficient measures need to be implemented to ameliorate the problem of water pollution from various sources. The sewage generated from various labour camps should be treated in septic tanks and disposed by discharging into nearest water body. However, efforts shall be made to discharge the treated effluent only in these water bodies, which are not used for meeting domestic water requirements.

The construction activities would require a crusher to crush large lumps of rocks to the requisite size for coarse as well as fine aggregates. The effluent generated from these crushers will have high-suspended solids. The effluent needs to be treated before disposal. Settling tanks of appropriate size for treatment of effluent from various crushers should be provided.

During tunneling work the ground water flows into the tunnel along with construction water, which is used for various works like drilling, shortcreting, etc. The effluent thus generated in the tunnel contains high suspended solids. Normally, water is collected in the side drains and drained off into the nearest water body without treatment. It is recommended to construct a settling tank of adequate size to settle the suspended impurities. It is expected that about 2 to 3 adits shall be required for the tunneling work. Thus, effluents are expected to be generated from 2 to 3 locations. The sludge from the various settling tanks can be collected once in 15 days and disposed at the site designed for disposal of municipal solid wastes from the labour camps. The sludge after drying could also be used as cover material for landfill disposal site. An amount of Rs.2.0 million needs to be earmarked for construction of various settling tanks.

# 12.2 CONTROL OF WATER POLLUTION DURING OPERATION PHASE

In the project operation phase, a plant colony with 30 quarters is likely to be set up. It is recommended to provide a suitable Sewage Treatment Plant (STP) to treat the sewage generated from the colony. The cost required for construction of sewage STP in the project colony has already been covered in the budget earmarked for construction of the project colony. Hence, the cost for the same has not been included in the cost for implementing EMP.

#### RESETTLEMENT AND REHABILITATION PLAN

#### 13.1 INTRODUCTION

The Resettlement and Rehabilitation Plan for the Project Affected Families of the proposed Sainj hydro-electric project has been prepared in line with the provisions and/or guidelines as given in The National Rehabilitation and Resettlement Policy, 2007; which has been prepared by the Ministry of Rural Development (Department of Land Resources) and published in the Gazette of India, Extraordinary, Part 1, Section I, dated 31<sup>st</sup> October 2007.

## 13.2 AFFECTED PROPERTIES, LAND AND FAMILIES

There are essentially about 3 villages/ revenue villages from where private land is proposed to be acquired for the proposed Sainj hydro-electric project. A total of about 56.763 ha of land proposed to be acquired. Of this, about 8.770 ha is private land (un-irrigated land), while about 47.993 ha is forest land. The overall quantum of land to be acquired for various project appurtenances is given in Table – 13.1.

Details of land required for acquisition

**TABLE - 13.1** 

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Description	Area (ha)
Agricultural land	
Irrigated land	-
Un-irrigated land	8.770
Homestead	-
Forest Land	47.993
Total	56.763

**Note**: Of the total of 47.993 ha of forest land to be acquired, 41.94 ha is actual forest land, while 6.053 ha is notional land

It is observed that about 8.77 ha of private land is proposed to be acquired from 3 village panchayats, namely, Sachen, Shainshar and Gara Parli. It is observed that about 206 project affected families (PAFs) are likely to lose land (agricultural and/or

homestead) in varying proportions.

In these 3 villages, there are about 206 PAFs / title land holder who are likely to get displaced/affected due to the proposed project. The village-wise details of PAPs in the project affected villages are depicted in Table 13.2.

**TABLE - 13.2** 

Village-wise details of project affected families

Village Name	Losing only Land	Losing only Homestead	Losing both Land and Homestead	Total
Suchehan Kothi Vanogi	1	0	1	2
Fati Shainshar Koti Shainshar	75	0	54	129
Fati Gada Parli	59	0	16	75
Total	135	0	71	206

It is also observed from Table-13.2, that a total of 206 PAFs are likely to lose their lands (agricultural/non-agricultural/homestead) in varying proportions. Refer to Annexure–II which has been compiled to depict the khasra wise land to be acquired and balance left with each PAF after acquisition. Also refer to Annexure–III which depicts the total land and proportion owned, acquired, balance left with PAFs.

Further, it was observed during field studies that many PAFs were losing their homesteads. It was observed 258 homesteads/sheds were either existing or newly constructed/under construction; on the khasras (plots) which are proposed to be acquired (refer Annexure–IV). It was also observed that many of the homestead owners are non-residents of the affected villages and have purchased plots in the project affected villages on which they have constructed homesteads/sheds. Further, there are some homesteads which have been in existence before the project was proposed; on the khasras (plots) which are proposed to be acquired.

## 13.3 PAYMENT OF COMPENSATION

The project affected families losing land and/or homesteads plots will be compensated

by the project authority in line and within the provisions of the Land Acquisition Act, 1984. As per Table 13.2 there are 206 PAFs who are likely to lose land in varying proportions. They will be entitled for compensation of their acquired lands within the provisions of the Land Acquisition Act. In addition, PAPs/ PAFs that lose their homesteads will also receive compensation of homesteads being acquired, based on assessment and evaluation (based on age of building, material used for construction, etc.) carried-out by an agency deputed for this purpose. Further other properties, such as fruit bearing and timber trees will be assessed and compensation amount will be due to the respective PAFs. Compensation will also be paid to the various public utility buildings, structures, spaces, etc., which will be given to the concerned departments/agencies.

### 13.4 RESETTLEMENT AND REHABILITITON PLAN

Over and above the compensation received for acquired properties, the project affected families will be entitled for Resettlement and Rehabilitation benefits, as per the National Rehabilitation and Resettlement Policy 2007, formulated by the Ministry of Rural Development, Department of Land Resources, published in the Gazette of India, Extraordinary, Part 1, Section I, dated the 31st October, 2007. The provisions of this R&R Policy have been extended to the project affected families as per their entitlements.

The objectives of the National Rehabilitation and Resettlement Policy are to:-

- (a) minimize displacement and to promote,' as far as possible, nondisplacing or least-displacing alternatives;
- (b) ensure adequate rehabilitation package and expeditious implementation of the rehabilitation process with the active participation of the affected families;
- (c) ensure that special care is taken for protecting the rights of the weaker sections of society, especially members of the Scheduled Castes and

- Scheduled Tribes, and to create .obligations on the State for their treatment with concern and sensitivity;
- (d) provide a better standard of living, making concerted efforts for providing sustainable income to the affected families;
- (e) integrate rehabilitation concerns into the development planning and implementation process, and
- (f) ensure where displacement is on account of land acquisition, relationship between the acquiring body and affected families are harmonious.

### 13.4.1 Resettlement benefits

As per the information gathered from the revenue records and field investigations, it was observed that there are about 71 PAFs losing their homesteads and/or shed structures. It was observed that these 71 PAFs were also losing their homesteads as well. Further, it was found that many of these homestead/ shed have been newly constructed or under construction, besides the ones that are already in existence. It was observed during field investigations, that all the homestead losers have an alternative place of residence either in the resident village or in the nearby villages. Thus as per our assessment, no homestead loser requires resettlement benefits. The details of resettlement are given in Table – 13.3.

TABLE – 13.3

Resettlement benefits to be extended to PAFs

Provision for Resettlement	Measures adopted/ Cost/ Details
Any affected family owning house and	As per the field investigations, it was
whose house has been acquired or lost,	observed that there are about 71 PAPs
may be allotted free of cost house site	losing land would also lose their
to the extent of actual loss of area of	homesteads and/or shed structures. It
the acquired house but not more than	was found that these structures are
two hundred and fifty square meter of	already constructed or have been newly
land in rural areas, or one hundred and	constructed or under construction.
fifty square meter of land in urban	
areas, as the case may be, for each	It was also observed that all the land
nuclear family	owners have alternative place of
	residence in the resident village or in
	the nearby villages.

Provision for Resettlement	Measures adopted/ Cost/ Details
	It was also observed that many homestead owners are non-residents in the affected villages, who have purchased house plots and have constructed sheds/ house structures.
	However, it is recommended that each family losing homestead be given a plot of 250 sq.m area. Thus land required for housing 71 families @ 250 sq.m. would be about 17750 sq.m (1.775 ha) of land would be required for resettlement colony area. In addition about 50% of the total land requirement would be needed for providing civic amenities and infrastructure facilities at the relocation site.
	Thus, the total land required for resettlement site would be 0.88 + 1.775 = 2.655 ha Say 2.66 ha.
	The land for resettlement site has to be identified by the project developer in consultation with the district administration. It would be highly preferred that this land be located very near the place of present residence so that socio-cultural relations and social harmony amongst the shifted families are not disturbed. The cost of procuring the land for resettlement site would be decided by the district administration.
House building assistance will be given in terms of financial assistance @ Rs. 1,50,000 per displaced family for construction of homesteads.	All the 71 displaced families would be provided a suitable one-time financial assistance for house construction @ Rs. 150,000 per family.
	Thus, a provision of <b>Rs. 10.65 million</b> (Rs. 150,000 x 71 PAFs x 10 <sup>-6</sup> ) needs to be ear-marked for provision of financial assistance for house construction.
Each affected family that is displaced and has cattle, shall get financial assistance of such amount as the appropriate Government may decide but not less than fifteen thousand	It is observed that all families own and rear cattle. Thus, each displaced family to be given a one time financial assistance of Rs. 15,000 for construction of cattle-shed.

Measures adopted/ Cost/ Details
Thus, a provision of <b>Rs. 1.07 million</b> (Rs. 15,000 x 71 PAFs x 10 <sup>-6</sup> ) needs to be ear-marked for provision of financial assistance for construction of cattle shed.
In order to facilitate the displaced families to shift to their new place of residence, each displaced family shall be given a one time financial assistance of Rs. 10,000 per family as shifting allowance.
Thus, an amount of <b>Rs. 0.71 million</b> (Rs. 10,000 x 71 PAFs x 10 <sup>-6</sup> ) needs to be ear-marked for provision of financial assistance for shifting of the family, building materials, belongings, cattle, etc.
A provision of Rs. 25,000 per displaced family is being kept for persons who are rural artisans, small traders or self-employed persons and who have been displaced.
A one-time financial assistance @ Rs. 25,000 for construction of working shed or shop is being made.
Thus a total amount of <b>Rs. 1.77 million</b> (Rs. 25,000 x 71 PAFs x 10 <sup>-6</sup> ) may be ear-marked for this purpose.
As per the field investigations, it was observed that there is no shop keepers within the land proposed for acquisition.
Thus no family is eligible to avail this benefit of the policy.
It is proposed to construct a project colony with provision to accommodate 71 PAFs. The colony shall be provided with various amenities and infrastructure facilities as outlined in the National Policy for Resettlement and Rehabilitation 2007.  The details are given in the following

Provision for Resettlement	Measures adopted/ Cost/ Details
fertilizer storage, irrigation, electricity, health centres, child" and mother supplemental nutritional services, children's playground, community centres, schools, institutional arrangements for training, places of worship, land for traditional tribal institutions, burial/ cremation grounds, and security arrangements.	•

## Basic amenities to be provided at resettlement zone

In addition to the aforesaid resettlement benefits, the displaced families shall be provided the basic amenities and infrastructure facilities at the resettlement site as per norms outlined in the NPR-2007. It is desirable that the following basic amenities and infrastructure facilities be included in the resettlement plan formulated by the Administrator of R&R.

- The new resettlement site would be connected to the main motor-able road by Water Bound Macadam Approach Road and internal village roads. The cost for construction of the approach road would be about Rs. 500,000 per km. A provision for a distance of about 5 km is being kept for this purpose. Thus an amount of Rs. 2.50 million (lumpsum) can be earmarked for laying WBM approach road and internal village roads at the resettlement site.
- Power supply needs to be provided within the resettlement site/ colony to the resettled households. In all there are 71 households that would be resettled in the resettlement colony. Free power supply of about 3kW to each of the resettled household could be given for a period of 5 years. Thereafter, tarrif could be charged at market rates from the resettled households.
- Piped water supply for drinking purpose. This could be provided by harnessing the natural sources of water and constructing storage tanks.

These community tanks could then be connected with pipeline, community taps. The approximate cost for storage tanks, laying the PVC pipeline for distribution, works out to approximately Rs. 10,000 per household (including cost of PVC pipe, excavation, sluice walks, labour etc.). The water could then be brought to the village through a pipeline. Thus the cost for providing water supply is about **Rs. 2.06 million.** 

• Sanitation facility needs to be provided at the resettlement site. Although most of the villagers are not in the habit of using lavatory facilities presently, it is felt when these PAFs move to the new relocation sites, they may have to live in compact settlements. It therefore becomes essential to provide lavatory facilities for them. It is suggested to provide about 12 Nos. of community lavatories with septic tanks and absorption trenches at the resettlement site. An amount of Rs. 0.85 million can be earmarked for commissioning of sewage treatment facilities. The details are given in Table 13.4.

Table – 13.4

Cost estimate for sanitary facilities in the resettlement site

S. No.	Works	Unit rate (Rs)	No.	Cost (Rs. Million)
1	Community Lavatories @ 1 per 20 persons	40000	15	0.60
2	Septic tank and absorption trenches including pipeline upto the point of disposal	2,50,000	1	0.25
Total				0.85

• **Higher Secondary School with playground**. About 1500 sq.m of land would be required for construction of higher secondary school building (800 m<sup>2</sup>) with play ground (700 m<sup>2</sup>). The school building should have at least 20 rooms (size 40m<sup>2</sup> including room, common areas, etc), which would include primary section as well. Land for school is to be provided by the Project Authority, in

consultation with local government/ administration. Necessary electrical fitting for the bulb/tube-light, Fan are also proposed in each room. The cost of construction of the school is approximately **Rs. 3.00 million** (Rs. 2.40 million + Rs. 0.60 million lump-sum for water supply and electrification). In case a higher secondary school already exists in the vicinity of the project area, this amount may be used to augment the existing infrastructure facilities of the school.

- A **Community hall** is to be constructed at the Resettlement site for which an area of 100 sq.m can be earmarked. The cost of construction shall be about Rs. 3000/m². Thus the total cost for construction of Community building would be **Rs. 0.30 million**. In case a community center already exists in the vicinity of the project area, this amount may be used to augment the existing infrastructure facilities of the community center.
- A Panchayat building is to be constructed at the resettlement site for which
  an area of 50 sq.m can be earmarked. The cost of construction shall be about
  Rs. 3000/m². Thus, the cost of constructing one panchayat building shall be
  Rs. 0.15 million.
- Place of worship is to be constructed at the resettlement site. A lump-sum provision of Rs. 0.50 million has been earmarked.
- A Post-office building is to be constructed in the resettlement site for which
  an area of 40 sq.m can be earmarked. The cost of construction shall be about
  Rs. 3000/m². Thus, the cost of constructing one post office shall be Rs. 0.12
  million.
- A fair price shop is to be constructed in the resettlement site for which an
  area of 30 sq.m can be earmarked. The cost of construction shall be about

Rs. 3000/m<sup>2</sup>. Thus, the cost of constructing one post office shall be **Rs. 0.09** million.

- Space for market would be required in the resettlement site, for which an area of 200 sq.m can be earmarked. The project authority, in consultation with the District Collector would provide the land required for market purpose.
- Space for Park and Play-ground would be required in the resettlement site, for which an area of 1000 sq.m can be earmarked. The project authority, in consultation with the District Collector would provide the land required for Park and Play ground purpose. The cost for leveling and development would be about Rs. 100 / m². The total cost would be Rs. 0.10 million.
- A **Primary Health Center**, with 5 beds is to be constructed in the resettlement site for which an area of 1500 sq.m can be earmarked. The built area of the PHC building, including residential complex (for 1 doctor, 2 nurses, 2 multipurpose health workers and 2 attendants) would be about 600 m<sup>2</sup>. The cost of construction shall be about Rs. 3000/m<sup>2</sup>. Thus, the cost of constructing one PHC building, including residential complex shall be Rs.1.80 million. Other infrastructure facilities, such as bed, furniture, equipment, one ambulance, etc., would cost Rs. 1.00 million. Thus the total cost required for establishing a PHC in the resettlement colony would be **Rs. 2.80 million**. This cost has to be borne by the project authority.

The recurring cost towards salaries of PHC staff and expenses on drugs and medicines and other running cost of the hospital shall be borne by the district administration.

The facilities suggested as a part of the Resettlement package should be made available not only to the resettled households but also to the remaining villagers

(affected families) in the study area and its vicinity. The summary of the resettlement package has been outlined in Table – 13.5.

Table – 13.5 Summary of Resettlement package

S. No	Provisions for Resettlement	Land required (ha)	Cost (Rs. Million)
1	Land for relocating 71 families @ 250 sqm/ PAP	1.77	**
2	Provision of Civic amenities and Infrastructure facilities	0.88	**
3	Financial assistance for house construction		10.65
4	Financial assistance for transportation cost for shifting		0.71
5	Financial assistance for provision of cattle-shed		1.07
6	Financial assistance for construction of working shed/ shop		1.77
7	WBM approach and internal road*		2.50
8	Power supply		0.00
9	Piped water supply		2.06
10	Sanitation facilities*		0.85
11	Higher secondary school with play ground*		3.00
12	Community hall*		0.30
13	Panchayat building*		0.15
14	Place of worship*		0.50
15	Post office*		0.12
16	Fair price shop*		0.09
17	Space for market*		0.00
18	Park and play ground*		0.10
19	Primary Health Centre*		2.80
	Grand Total	2.66	26.67

<sup>\*</sup> Area required has been considered and included in the land for provision of civic amenities and infrastructure development

These facilities should be made available not only to the PAFs but also to the remaining villagers. The expenditure on all these aspects shall be the part of the project cost. Thus a total cost of **Rs. 26.67 million + 2.66 ha land**, may be earmarked in the project for Resettlement measures and provision of civic amenities and infrastructure development in the resettlement colony. However, aforesaid cost is not inclusive of the cost of 2.66 ha of land required for the resettlement site. This cost would be decided by the District Collector.

<sup>\*\*</sup> Cost of land is not included and its cost will be decided by the District Collector.

#### 13.4.2 Rehabilitation Plan

Sanction of rehabilitation grant, infrastructure grant of facilities and grant to the project affected families rendered landless or houseless or both. The project affected families, which is rendered landless on account of acquisition of land shall be eligible for landless grant in the following manner. The details of rehabilitation benefits extended to the PAFs are highlighted in Table 13.6.

TABLE – 13.6

Rehabilitation benefits extended to PAFs

Policy guidelines				
Each affected family owning				
agricultural land in the affected area				
and whose entire land has been				
acquired or lost, may be allotted in the				
name of the <i>khatedar(s)</i> in the affected				
family, agricultural land or cultivable				
wasteland to the extent of actual land				
loss by the <i>khatedar(s)</i> in the affected				
family subject to a maximum of One				
hectare of irrigated land or two				
hectares of un-irrigated land or				
cultivable wasteland, if Government				
land is available in the resettlement				
area. This benefit shall also be				
available to the affected families who				
have, as a consequence of the				
acquisition or loss of land, been				
reduced to the status of marginal				
farmers.				

Adopted measures

As per the revenue records, it is observed that about 31 land titleholders would be rendered "landless" after acquisition of land for the project.

It is also observed that all the farmers being rendered landless are losing less than 1 ha of agricultural land. It is therefore suggested to give them atleast 1 ha irrigated cultivable land. It is often seen that irrigate lands are not easily available. Thus 2 ha of unirrigated cultivable wasteland may be given.

Further, there are about 160 PAPs who would be rendered as "Marginal farmers" after acquisition of land. They would also be given 2 ha of un-irrigated cultivable wasteland.

Thus total requirement of land to meet the "land for land" option for landless and marginal farmers would be about (191 x 2) 382 ha of un-irrigated cultivable waste lands.

It is also suggested that there are about 09 PAPs who would be rendered "small farmers" after acquisition of their lands. It is observed that these farmers would be losing about 0.2 ha on an average, while they would be left with about 1.5 ha land on an average. It is

Policy guidelines	Adopted measures
	suggested that they could also be given alternative cultivable land upto the extent lost by them. Thus another <b>1.90 ha</b> is land would be required to be given to these farmers.
	In addition, there are about 6 PAPs who would also lose their land, which is about 0.17 ha on an average. They are left with about 3.72 ha on an average. These farmers/ land title holders could be given only cash compensation for their acquired lands.
	Thus the total land required would be about (382 + 1.90) 383.9 <b>Say 384 ha</b> would be required for "land for land" option.
In the case of irrigation or hydel projects, the affected families shall be	Will be complied as per policy guidelines.
given preference in allotment of land- for-land in the command area of the project, to the extent possible. Such lands may be consolidated, and plots of suitable sizes allotted to the affected families who could be settled there in groups. In case a family cannot be given land in the command area of the project or the family opts not to take land there, such a family may be given	However, at this stage it is difficult to know, which families cannot be given land or which families opt not to take land there, such a family may be given monetary compensation on replacement cost basis for their lands lost, for purchase of suitable land elsewhere.
monetary compensation on replacement cost basis for their lands lost, for purchase of suitable land elsewhere.	As a part of the R&R plan, both options, i.e., Option – I: Land for Land and Option – II: Rehabilitation grant for Land have been recommended.
In the case of irrigation or hydel projects, the State Governments may formulate suitable schemes for providing land to the affected families in the command areas of the projects by way of pooling of the lands that may be available or, otherwise, could be made available in the command areas of such projects.	Cannot be complied with, as no command area development is envisaged in the proposed project.
In the case of irrigation or hydel projects, fishing rights in the reservoirs shall be given to the affected families, if such rights were enjoyed by them in the affected area; (b) In other cases also, unless there are special reasons,	Will be complied as per policy guidelines.

Policy guidelines	Adopted measures				
fishing rights shall be given	•				
preferentially to the affected families.					
In case of a project involving land	Will be complied as per policy				
acquisition on behalf of a requiring	guidelines.				
body, the stamp duty and other fees					
payable for registration of the land or					
house allotted to the affected families					
shall be borne by the requiring body.					
The land allotted to the affected	Will be complied as per policy				
families under this policy shall be free	guidelines.				
from all encumbrances.					
The land or house allotted to the	Will be complied as per policy				
affected families under this policy may	guidelines.				
be in the joint names of wife and					
husband of the affected family.					
In case of allotment of wasteland or	About 384 ha of land is required to be				
degraded land in lieu of the acquired	made available for disbursement under				
land, each khatedar in the affected	"land for land" scheme.				
family shall get a one-time "financial					
assistance of such amount as the	Thus, a provision of <b>Rs. 5.76 million</b>				
appropriate Government may decide	(Rs. 15,000 x 384 ha x 10 <sup>-6</sup> ) is being				
but not less than fifteen thousand	ear-marked towards a one-time				
rupees per hectare for land	financial assistance for cost for land				
development.	development.  About 8.77 ha of land would be				
In case of allotment of agricultural land in lieu of the acquired land, each	acquired and there are about 206 PAFs				
khatedar in the affected family shall get	who would be losing land.				
a one-time financial assistance of such	who would be losing land.				
amount as the appropriate Government	Thus, an amount of <b>Rs. 2.06 million</b>				
may decide but not less than ten	(206 PAFs x Rs. 10,000) needs to be				
thousand rupees, for agricultural	,				
production.	"financial assistance" for loss of				
•	agricultural production.				
In case of a project involving land acquisition on behalf of a requiring body					
(a) the requiring heady shall size	The main aim of the preject developer				
(a) the requiring body shall give	The main aim of the project developer				
preference to the affected families -	would be to implement and				
atleast one person per nuclear family -	meticulously follow "land for land". However, in case alternative land is not				
in providing employment in the project, subject to the availability of vacancies	available, the project developer would				
and suitability of the affected person for	not only give preference, but would				
the employment;	earnestly ensure that atleast one				
and omployment,	person per project affected nuclear				
	family get employment.				
(b) wherever necessary, the	Will have to be meticulously followed.				
requiring body shall arrange for training					
of the affected persons, so as to enable					
such persons to take on suitable jobs;					

#### **Policy guidelines Adopted measures** (c) the requiring body shall offer One member from each of the project affected families would be scholarships and other skill given opportunities development scholarships to the and other skill eligible persons from the affected development opportunities. families as per the criteria as may be fixed by the appropriate Government; the requiring body shall give The project developer shall preference to the affected persons or preference to the affected persons or their groups or cooperatives in the their groups or cooperatives in the allotment of outsourced contracts. allotment of outsourced contracts. shops or other economic opportunities shops or other economic opportunities coming up in or around the project site; coming up in or around the project site and (e) the requiring body shall give Will be complied as per policy preference to willing landless labourers and unemployed affected persons while engaging labour in the project during the construction phase. The affected persons shall be offered One person from each of the affected families would be give training facilities the necessary training facilities for development of entrepreneurship, for development of entrepreneurship, technical and professional skills for technical and professional skills for self-employment. self-employment. Various schemes of the Ministry of Rural Development could be used for imparting training to the PAFs. An amount of Rs. 2.47 Say 2.50 million (Rs. 500 x 24 months x 206 PAFs) is being earmarked for for entrepreneurship. development of technical and professional skills for self-employment. In case of a project involving land Irrespective of who is executing the acquisition on behalf of a requiring construction of the project, in case the body, the affected families who have **PAFs** have not been provided not been provided agricultural land or alternative agricultural land or Job, they employment shall be entitled to a will be provided with a Rehabilitation rehabilitation grant equivalent to seven Grant equivalent to 750 days minimum hundred fifty days minimum agricultural agricultural wages or such other higher wages or such other higher amount as amount as may be prescribed by the may be prescribed by the appropriate appropriate Government. Government. Thus, a provision of Rs. 11.587 Say Provided that, if the requiring body is a 11.60 million (Rs. 75 MAW/day x 206 company authorized to issue shares PAFs x 750 days) needs to be and debentures, such affected families earmarked for this purpose.

shall be given the option of taking up to

Policy guidelines	Adopted measures
twenty per cent. of their rehabilitation	
grant amount in the form of shares or	
debentures of the requiring body, in	
such manner as may be prescribed.	
Provided further that the appropriate	Will be complied as per policy.
Government may, at its discretion,	
raise this proportion up to fifty per cent	
of the rehabilitation grant amount.	NACOLA DE LA COLATA DEL COLATA DE LA COLATA DEL COLATA DE LA COLATA DE
In cases where the acquisition of	Will be complied as per policy
agricultural land or involuntary	
displacement takes place on account of	
land development projects, in lieu of	
land-for-land or employment, such affected families would be given site(s)	
or apartment(s) within the development	
project, in proportion to the land lost,	
but subject to such limits as may be	
defined by the appropriate	
Government.	
In case of a project involving land	Irrespective of the fact that who is
acquisition on behalf of a requiring	developing the project, a monthly
body, each affected family which is	Subsistence allowance equivalent to
involuntarily displaced shall get a	twenty-five days minimum agricultural
monthly subsistence allowance	wages per month for a period of one
equivalent to twenty-five days minimum	year from the date of acquisition. This
agricultural wages per month for a	financial assistance is being extended
period of one year from the date of	to all the PAFs.
displacement.	
	Thus, a provision of Rs. 4.64 million
	(Rs. 75 MAW/day x 206 PAFs x 300
	days) needs to be earmarked for this
	purpose.

# **Area Development Activities**

In addition, the Consultant is of the opinion that a limited numbers of scholarships could be given by the project developer to the affected families. There are about 206 PAFs who are likely to be affected. One student from each of the displaced families could be provided scholarship facility. Thus, two hundred and six scholarships have been proposed for continuity of the children of PAFs' education for a period of 2

years. A provision of Rs.500 x 206 students x 24 months =  $\mathbf{Rs.}$  2.47 million can be earmarked for this purpose.

# 13.5 INSTITUTIONAL/ ADMINISTRATIVE ARRANGEMENT FOR IMPLEMENTATION OF THE R&R MEASURES

# 13.5.1 Appointment of Administrator and Commissioner for Rehabilitation and Resettlement and their powers and functions

Where the appropriate Government is satisfied that there is likely to be involuntary displacement of large number of persons due to acquisition of land for any project or due to any other reason, it may; and where the appropriate Government is satisfied that there is likely to be involuntary displacement of four hundred or more families *en masse* in plain areas, or two hundred or more families *en masse* in tribal or hilly areas, DDP blocks or areas mentioned in the Schedule V or Schedule VI to the Constitution due to acquisition of land for any project or due to any other reason, it shall, appoint, by notification, by the State Government(s) concerned, in respect of that project, an officer not below the rank of District Collector of the State Government to be appointed as the Administrator for Rehabilitation and Resettlement (R&R).

The Administrator for Rehabilitation and Resettlement shall be assisted by such officers and employees as the appropriate Government may provide. Subject to the superintendence, directions and control of the appropriate Government and Commissioner for Rehabilitation and Resettlement, the Administrator for Rehabilitation and Resettlement shall take all measures for the rehabilitation and resettlement of the affected families. The overall control and superintendence of the formulation, execution and monitoring of the rehabilitation and resettlement plan shall vest in the Administrator for Rehabilitation and Resettlement.

Subject to any general or special order of the appropriate Government, the Administrator for Rehabilitation and Resettlement shall perform the following functions and duties:

- (i) minimize displacement of people and to identify non-displacing or least-displacing alternatives in consultation with the requiring body;
- (ii) hold consultation with the affected families while preparing a rehabilitation and resettlement scheme or plan;
- (iii) ensure that interests of the adversely affected persons of Scheduled Tribes and weaker sections are protected;
- (iv) prepare a draft scheme or plan of rehabilitation and resettlement as required under Chapter VI of this policy;
- (v) prepare a budget including estimated expenditure of various components of acquisition of land, rehabilitation and resettlement activities or programmes in consultation with representatives of the affected families and the requiring body;
- (vi) arrange adequate land, as far as possible, for rehabilitation and resettlement of the affected families:
- (vii) allot land and sanction the benefits to the affected families;
- (viii) perform such other functions as the appropriate Government may, from time to time, by order in writing, assign.

The administrator for Rehabilitation and Resettlement may, by order in writing, delegate such of the administrative powers conferred and duties imposed on him by or under this policy to any officer not below the rank of *Tehsildar* or equivalent. All officers and staff appointed by the appropriate Government under this policy shall be subordinate to the Administrator for Rehabilitation and Resettlement.

The State Government shall appoint an officer of the rank of Commissioner or of equivalent rank of that Government for rehabilitation and resettlement in respect of such cases to which this policy applies to be called the Commissioner for Rehabilitation and Resettlement. For the purposes of this policy, the Administrator

for Rehabilitation and Resettlement and other officers and employees appointed for the purposes of rehabilitation and resettlement of the affected families shall be subordinate to the Commissioner for Rehabilitation and Resettlement. The Commissioner for Rehabilitation and Resettlement shall be responsible for supervising the formulation of rehabilitation and resettlement plans (R&R) schemes and proper implementation of such plans or schemes.

#### 13.5.2 Grievance Redressal Mechanism

For each project which involves involuntary displacement of four hundred or more families *en masse* in plain areas, or two hundred or more families *en masse* in tribal or hilly areas, DDP blocks or areas mentioned in the Schedule V or Schedule VI to the Constitution, the appropriate Government shall constitute a Committee under the chairpersonship of the Administrator for Rehabilitation and Resettlement, where appointed, or some other senior Government official, where the Administrator for Rehabilitation and Resettlement is not appointed, to be called the Rehabilitation and Resettlement Committee, to monitor and review the progress of implementation of the scheme or plan of rehabilitation and resettlement of the affected families, and to carry out post-implementation social audits.

The Rehabilitation and Resettlement Committee constituted as above shall include, apart from officers of the appropriate Government, as one of its members:-

- a representative of women residing in the. affected area;
- a representative each of the Scheduled Castes and Scheduled Tribes residing in the affected area;
- a representative of a voluntary organization;
- a representative of the lead bank;

- Chairperson(s) of the panchayats and municipalities located in the affected area, or their nominee(s);
- Members of Parliament and Members of Legislative Assembly of the area included in the affected area;
- the Land Acquisition Officer of the project; and
- a representative of the requiring body.

The procedure regulating the business of the Rehabilitation and Resettlement Committee, its meetings and other matters connected thereto shall be such as may be prescribed by the appropriate Government.

In the project area district, the State Government shall constitute a standing Rehabilitation and Resettlement Committee under the chairpersonship of the District Collector or, as the case may be Deputy Commissioner of the district, to monitor and review the progress of rehabilitation and resettlement of the affected families in the district excluding those covered by the Rehabilitation and Resettlement Committees at the project level.

An Ombudsman shall be appointed by the state Government, for time-bound disposal of the grievances arising out of the matters covered by this policy. Any affected person, if aggrieved, for not being offered the admissible rehabilitation and resettlement benefits as provided under this policy, may move an appropriate petition for redressal of his or her grievances to the Ombudsman concerned.

## 13.5.3 Post-Project Monitoring

Status of availability of alternative homestead for project affected persons, development of infrastructural facilities such as schools, sewer networks, roads, etc. are some of the aspects which could be considered for monitoring and modifications

may be suggested if required. It needs to be appreciated that R&R issues are politically sensitive issues and often need timely attention. For such reasons, it is suggested that the monitoring be conducted by an independent agency not connected with the project. Therefore, an independent Consultant having experience in R&R studies in similar areas, i.e. hilly areas and not connected with the project, can be appointed for monitoring the project. The Consultant will review the rehabilitation and resettlement programme after 2<sup>nd</sup>, 4<sup>th</sup> and 6<sup>th</sup> year from the completion of the R&R activity. A total provision of **Rs. 0.90 million** has been kept in the project estimate for this purpose.

#### 13.6 PARTICIPATION OF PAFS

Involvement of affected communities in planning and implementation of rehabilitation programmes according to their felt needs and socio-economic conditions is of vital importance. To obtain co-operation, participation and feedback, PAFs need to be systematically informed and consulted during preparation and implementation of resettlement plan about their options and rights. In the proposed project, co-operation and participation of PAFs in the resettlement process could be ensured through their involvement in each of the following stages.

#### Involvement in preparation of Rehabilitation Master Plan

As a part of participatory planning, community meetings should be held on a routine basis to explain about the project and the R&R policy of the project. Direct communication with the PAFs will negate the politicization of the R&R Process. The communication with the PAFs can be through the Village Level Committee.

#### > Involvement of PAFs in implementation process

The Village Level Committee can be involved in the implementation of

Rehabilitation Plan particularly during the identification of forest land to be allotted to Village Level Committee. They should also be consulted in finding out alternative economic opportunities to supplement their household income. However, some NGO groups can also be associated which can interact directly with the project authorities and the affected population.

#### 13.7 BUDGET FOR RESETTLEMENT & REHABILITATION

The budget for Resettlement and Rehabilitation plan given below has taken consideration of the two options/scenarios, wherein alternate land is provided to the project affected persons/families and where alternate land is not provided for.

**OPTION – I:** The budget required **in case alternate land is made available** under "land for land" scheme is highlighted in Table 13.7.

TABLE 13.7

Budgetary estimate for implementation of R&R Plan (Option - I)

S. No.		R&R Components	Cost (Rupees Million)
1	Rese	ttlement plan including basic facilities at resettlement site	
	•	Land for resettlement site = 2.66 ha	**
	•	One time financial assistance for house construction	10.65
	•	Financial assistance for construction of cattle-shed	1.07
	•	Transportation cost	0.71
	•	One time financial assistance for construction working shed	1.77
	•	Basic amenities & facilities in the resettlement site	12.47
		Sub-Total (Resettlement) [1]	26.67
2	Reha	bilitation plan	
	•	Cultivable land required for "land for land" = 384 ha	**
	•	Land development cost	5.76
	•	Loss of agricultural produce	2.06
	•	Subsistence allowance	4.64
	•	One time financial assistance for "training for development of entrepreneurship"	2.50
	•	Scholarship for students	2.47

	Sub-Total (Rehabilitation) [2]	17.43
3	Monitoring and evaluation set-up [3]	0.90
Grand	d total [1+2+3]	45.0

<sup>\*\*</sup> Alternative land is to be identified and Cost of land has to be decided and finalized by the District Collector.

A total budget of **Rs. 45.0 million + 384.8 ha of un-irrigated land + 2.655 ha land for resettlement purposes** would be required under Option – I, wherein "land for land" is made available to the project affected persons/ families in consultation with the District authorities and subject to availability of Government land in the districts (refer Table – 5.13).

**OPTION – II:** The budget required in case alternate land is not made available to the project affected persons/ families are highlighted in Table 13.8.

TABLE 13.8

Budgetary estimate for implementation of R&R Plan (Option - II)

S. No.	R&R Components		Cost (Rupees Million)		
1	Rese	ttlement plan including basic facilities at resettlement site			
	•	Land for resettlement site = 2.66 ha	**		
	•	One time financial assistance for house construction			
	•	Financial assistance for construction of cattle-shed	1.07		
	•	Transportation cost	0.71		
	•	One time financial assistance for construction working shed			
	•	Basic amenities & facilities in the resettlement site	12.47		
		Sub-Total (Resettlement) [1]	26.67		
2	Reha	bilitation plan			
	•	One time financial assistance to PAF @ 750 days Minimum Agricultural Wages	11.60		
	•	Subsistence allowance	4.64		
	•	One time financial assistance for "training for development of entrepreneurship"	2.50		
	•	Scholarship for students	2.47		
		Sub-Total (Rehabilitation) [2]	21.21		

		Cost	
S.	R&R Components	(Rupees	
No.		Million)	
3	Monitoring and evaluation set-up [3]	0.90	
_	48.78		
Grand	Grand total [1+2+3]		

Thus a total budget of **Rs. 48.78 million + 2.655 ha of land for resettlement colony** would be required under Option – II, wherein "land for land" is not made available to the project affected persons/ families.

#### 13.8 CONCLUSIONS

On the whole, there are about 3 village panchayats that would be affected due to the process of land acquisition. Thus it can be concluded that about 206 PAFs are expected to lose their lands in varying proportion. In addition there are about 71 that are likely to get displaced from their homesteads. It is also observed that most of these 71 PAFs losing land have alternative place of residence, which was confirmed during the survey work. It was also observed that a considerable number of residents from the nearby villages and towns have invested in homestead plots, which have been purchased from these local villagers. It was observed during survey work, many of the house/ sheds had been newly constructed or were under construction. The National Rehabilitation and Resettlement Policy, 2007 formulated by the Ministry Of Rural Development, Department of Land Resources has been used to formulate the Resettlement and Rehabilitation (R&R) plan for the PAFs of the proposed Sainj Hydro-electric project. The Resettlement and Rehabilitation package and their subsequent costs that have been suggested in line with the National Rehabilitation and Resettlement Policy, 2007 is over and above the compensation due/received for the loss of properties of and by the PAFs.

#### CHAPTER-14

#### **ENVIRONMENTAL MONITORING PROGRAMME**

## 14.1 THE NEED

Environmental monitoring is an essential component for sustainability of any water resources project. It is an integral part of any environmental assessment process. Any water resources development project introduces complex inter-relationships in the project area between people, various natural resources, biota and the many developing forces. Thus, a new environment is created. It is very difficult to predict with complete certainty the exact post-project environmental scenario. Hence, monitoring of critical parameters is essential in the project operation phase. An Environmental Monitoring Programme has been designed with the following objectives:

- Assess the changes in environmental conditions, if any, during construction and operation of the project.
- Monitor the effective implementation of mitigatory measures.
- Warning of any significant deterioration in environmental quality so that additional mitigatory measures may be planned in advance.

#### 14.2 AREAS OF CONCERN

From the monitoring point of view, the important parameters are water quality, landuse, ambient air quality, ecology, etc. An attempt is made to establish early warning of indicators of stress on the environment. Suggested monitoring details are outlined in the following sections.

#### 14.3 WATER QUALITY

#### **Construction Phase**

It is proposed to monitor the effluent before and after treatment from oxidation ditch.

The frequency of monitoring could be once per month. It is assumed that 5 oxidation

ditches shall be constructed to treat the sewage generated from five labour camps. Since, 7 septic tanks have been proposed for labour camps, a total of (5 septic tanks\* 12 months\* 2 samples, i.e. before and after treatment) 120 samples/year need to be analysed. The parameters to be monitored include pH, Bio-chemical Oxygen Demand, Total Suspended Solids and Total Dissolved Solids. The cost of analysis of one sample is expected to be Rs.1,500. Thus, total cost for analysis of 120 samples is expected to be Rs. 0.18 million/year. The analysis work can be done by a laboratory recognized by the State Pollution Control Board.

# Operation phase

The surface water quality of the proposed reservoir and Malana Nallah needs to be monitored thrice a year. The proposed parameters to be monitored are as follows: pH, temperature, electrical conductivity, turbidity, total dissolved solids, calcium, magnesium, total hardness, chlorides, sulphates, nitrates, DO, COD, BOD, Iron, Zinc and Manganese. The sampling sites shall be:

- 1 km upstream of the barrage site.
- Reservoir water.
- 1,5 and 10 km downstream of the confluence of the tail race discharge.

The total cost of analysis will be Rs.0.3 million per year. This analysis shall be done throughout the entire life of the project. The analysis work can be conducted by a reputed external agency recognized by State Pollution Control Board.

During project operation phase, a Sewage Treatment Plant (STP) is proposed to be set up to treat the effluent from the project colony. Once every week, it is envisaged to analyse a sample each before and after treatment from the STP. The parameters to be analysed include pH, Biochemical Oxygen Demand, Chemical Oxygen Demand, Total Suspended Solids and Total Dissolved Solids. The cost of analysis of 104 samples @ Rs.1500 per sample works out to Rs.0.16 million/year. Thus, total cost for analysis in

project operation works out to Rs.0.46 million/year.

#### 14.4 AIR QUALITY AND METEOROLOGY

# **Project Construction Phase**

The ambient air quality monitoring during construction phase can be carried out by an external agency, approved by State Pollution Control Board at four stations close to construction sites. Every year monitoring is to be done for the following three seasons:

- Winter
- Summer
- Post-monsoon

The frequency of monitoring could be twice a week for four consecutive weeks at each station for each season. The parameters to be monitored are Respirable Particulate Matter (RPM) and Suspended Particulate Matter (SPM), Sulphur dioxide (SO<sub>2</sub>) and Nitrogen Oxides (NOx).

Every year, ambient air quality is to be monitored for (4 stations \* 2 days/week \* 4 weeks x 3 seasons) 96 days. A total cost of Rs. 0.29 million @ Rs. 3000/day can be earmarked for this purpose.

A meteorological laboratory can be set up at one of the ambient air quality monitoring stations. Automatic recorders for temperature, humidity, wind speed & direction, rainfall needs to be commissioned at the site. An amount of Rs.0.4 million can be earmarked for this purpose.

# **14.5 NOISE**

## **Project Construction Phase**

Noise emissions from vehicular movement, operation of various construction equipment may be monitored during construction phase at major construction sites.

The frequency of monitoring could be once every three months. For monitoring of noise generators an Integrating Sound Level Meter will be required.

# **Project Operation Phase**

No major impact due to noise is observed in operation phase.

# 14.6 SOIL EROSION AND SILTATION

# **Project Construction Phase**

No monitoring programme is suggested for project construction phase

# **Project Operation Phase**

Soil erosion rates, slope stability of embankments of barrage, efficacy of soil conservation measures, need to be closely monitored twice a year. The HPSEB staff at the project site can do the study. The study should be undertaken throughout the life of the project so as to design the soil erosion prevention measures and also for the rehabilitation/decommissioning of the project. Following parameters like soil erosion rates, stability of bank embankment would be measured. In addition to above, soil quality at various locations in the catchment area needs to be monitored once every year. The parameters to be monitored are pH, organic matter and texture.

# 14.7 ECOLOGY

## **Project Construction Phase**

A detailed ecological survey covering forestry, fisheries, wildlife is recommended during entire construction phase. The survey can be conducted once every year for the entire construction period. A provision of Rs.0.5 million/year can be earmarked for this purpose. The various aspects to be covered include:

- Qualitative & Quantitative assessment of flora and fauna.
- Monitoring of restoration of muck disposal area.

**Project Operation Phase** 

Status of afforestation programmes, changes in migration patterns of the aquatic and

terrestrial fauna species should be studied. The study could be undertaken with a

frequency of 5 years till the entire design life of the barrage. A provision of Rs.0.5

million per study can be kept for this purpose. Thus the annual expenditure can be

taken as 0.1 million/ year. The monitoring can be conducted by a reputed external

agency.

14.8 INCIDENCE OF WATER-RELATED DISEASES

**Project Construction Phase** 

Identification of water-related diseases, adequacy of local vector control and curative

measures, status of public health are some of the parameters which should be

closely monitored three times a year with the help of data maintained in the

government dispensaries/hospitals.

Implementation : Public Health Department,

& Dispensary constructed

for labour camps

Cost per annum : Rs.0.1 million

**Project Operation Phase** 

Increased prevalence of various vector borne diseases and adequacy of local vector

control and curative measures need to be monitored. The monitoring can be done

three times in a year.

Implementation:

Dispensary at the project site

Cost per annum:

Rs.0.10 million

Monitoring of aquatic ecology will be essential to achieve sustainable yield of fish.

Some of the parameters to be monitored are phytoplanktons, zooplanktons, benthic life

WAPCOS Centre for Environment

and fish composition, etc. The monitoring can be conducted by a reputed external agency, for which an amount of Rs.0.30 million/year can be earmarked.

#### 14.9 LANDUSE PATTERN

# **Project Operation Phase**

During project operation phase, it is proposed to monitor land use pattern once every year. An amount of Rs.0.3 million can be earmarked for this purpose.

# 14.10 SUMMARY OF ENVIRONMENTAL MONITORING PROGRAMME

The details of environmental monitoring programme are given in Tables 14.1 and 14.2 respectively.

TABLE-14.1
Summary of Environmental Monitoring Programme during
Project Construction Phase

S. No.	Item	Parameters	Frequency	Location
1.	Effluent from septic tanks	pH, BOD, COD, TSS, TDS	Once every month	Before and after treatment from each septic tank
2.	Water-related diseases	Identification of water related diseases, adequacy of local vector control and curative measure, etc.	Three times a year	Labour camps and colonies
3.	Noise	Equivalent noise level (L <sub>eq</sub> )	Once in three months	At major construction sites.
4.	Air quality	SPM, RPM, SO <sub>2</sub> and NOx	Once every season	At major construction sites
5.	Meteorological aspects	Wind direction & velocity temperature humidity, rain	Once every season	At one of the ambient air quality sampling sites

# TABLE-14.2 Summary of Environmental Monitoring Programme during Project Operation Phase

S.	Items	Parameters	Frequency	Location
No.				
1.	Water	pH, Temperature, EC, Turbidity, Total Dissolved Solids, Calcium, Magnesium, Total Hardness, Chlorides, Sulphates, Nitrates, DO. COD, BOD, Iron, Zinc, Manganese	Thrice a year	<ul> <li>1 km upstream of barrage site</li> <li>Water spread area</li> <li>1 and 3 km downstream of Tail Race discharge</li> </ul>
2.	Effluent from Sewage Treatment Plant (STP)	pH, BOD, COD, TSS, TDS	Once every week	Before and after treatment from Sewage Treatment Plant (STP)
3.	Erosion & Siltation	Soil erosion rates, stability of bank embankment, etc.	Twice a year	-
4.	Ecology	Status of afforestation programmess of green belt development	Once in 2 years	-
5.	Water- related diseases	Identification of water- related diseases, sites, adequacy of local vector control measures, etc.	Three times a year	Villages adjacent to project sites
6.	Aquatic ecology	Phytoplanktons, zooplanktons, benthic life, fish composition	Once a year	<ul> <li>1 km upstream of barrage site</li> <li>Water spread area</li> <li>1 and 3 km downstream of Tail Race discharge</li> </ul>
7.	Landuse	Landuse pattern using satellite data	Once in a year	Catchment area
8.	Soil	pH, EC, texture, organic matter	Once in a year	Catchment area

#### **CHAPTER-15**

#### **COST ESTIMATES**

#### 15.1 COST FOR IMPLEMENTING ENVIRONMENTAL MANAGEMENT PLAN

The total amount to be spent for implementation of Environmental Management Plan (EMP) is **Rs.297.545 million**. The details are given in Table-15.1.

**TABLE-15.1** 

**Cost for Implementing Environmental Management Plan** 

S. No.	Item	Cost (Rs. million)
1.	Compensatory Afforestation NPV, Cost of Trees and Biodiversity conservation	107.365
2.	Catchment Area Treatment	75.00
3.	Fisheries Management	13.23
4.	Public health delivery system	5.19
5.	Environmental Management in labour camp	8.36
6.	Muck management	9.75
7.	Restoration and Landscaping of construction sites	8.50
8.	Environmental management in road construction	8.84
9.	Greenbelt development	4.00
10.	Water pollution control	2.00
11.	Resettlement and Rehabilitation Plan	48.78
12.	Environmental Monitoring during construction phase	6.53
	Total	297.545

# 15.2 COST FOR IMPLEMENTING ENVIRONMENTAL MONITORING PROGRAMME

The cost required for implementation of the Environmental Monitoring Programme is of the order of Rs.6.53 million @ Rs.1.07 million/ year. A 10% annual price increase may be considered for every year. The construction period for estimation of cost for implementation of Environmental Monitoring programme during construction phase has been taken as 5 years. The details are given in Table-15.2. The cost required for implementation of the Environmental Monitoring Programme at operation phase is of the order of Rs.1.16 million/year. The details are given in Table-15.3.

## **TABLE-15.2**

Cost for Implementing Environmental Monitoring Programme during construction phase

S. No	Item	Cost (Rs. million/year)	Total cost 4 years with 10% escalation (Rs. million)
1	Water quality	0.18	1.10
2	Air quality	0.29	1.77
3	Ecology	0.50	3.05
4	Incidence of water related Diseases	0.10	0.61
	Total	1.07	6.53

**TABLE-15.3** 

Cost for Implementing Environmental Monitoring Programme during operation phase

S. No	Item	Cost (Rs. million/year)	
1	Water quality	0.46	
2	Ecology	0.1	
3	Incidence of water related diseases	0.3	
4	Land use pattern	0.3	
	Total	1.16	

#### **CHAPTER-16**

# **SUMMARY OF IMPACTS AND MANAGEMENT MEASURES**

The Summary of impacts, suggested management measures and implementing agency has been given in Table-16.1.

TABLE-16.1
Summary of Impacts, Suggested Management measures and Implementing agency

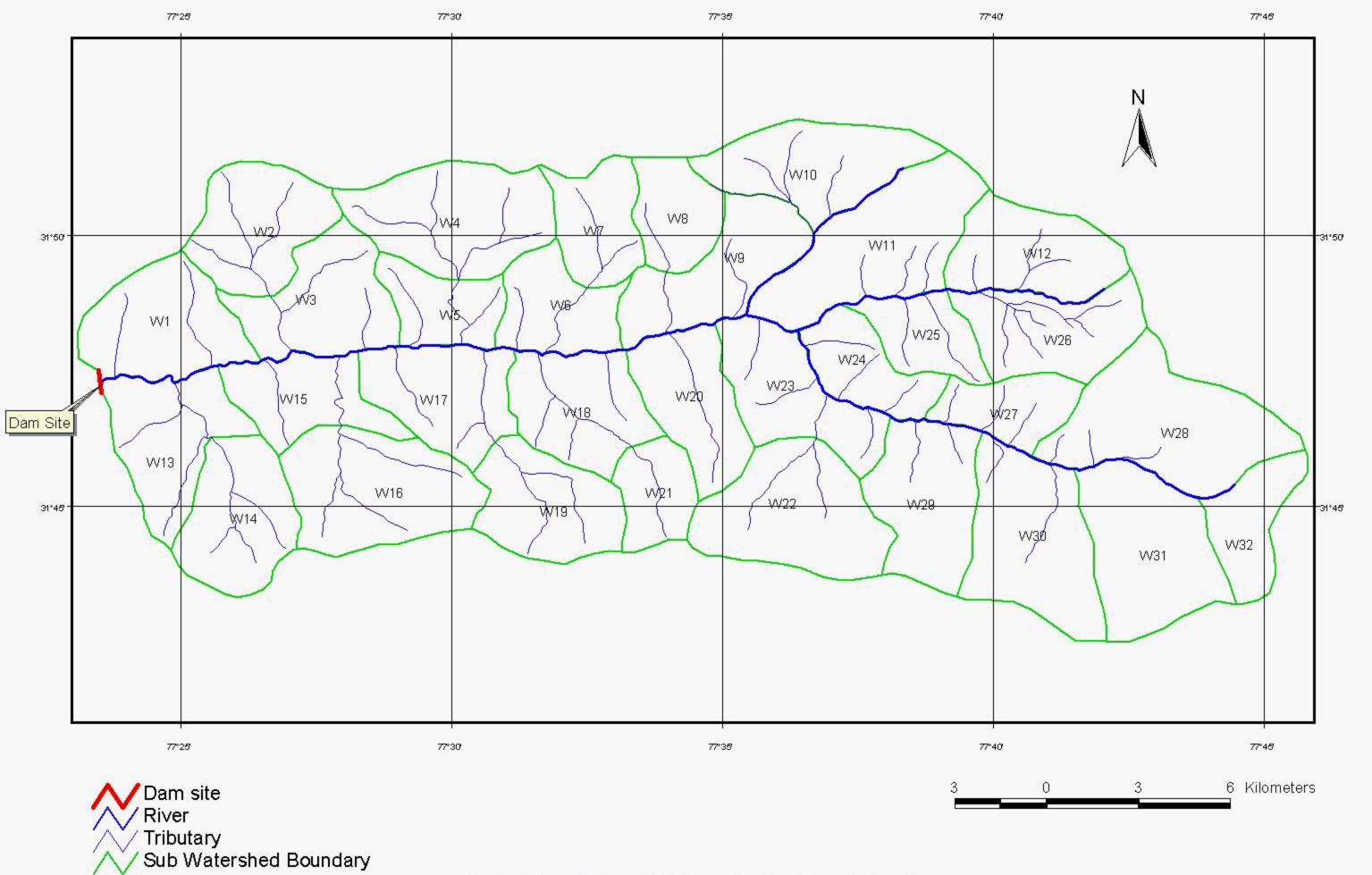
S.	Parameters	Impact	Management	Implementing		
No.			Measures	Agency		
1.		WATER ENVIRONMENT				
	Water Quality		T	T		
	Construction phase	<ul> <li>Water pollution due to disposal of sewage from labour colonies.</li> </ul>		HPSEB and project contractor		
		Deterioration water quality due to effluent from crusher	Provision of settling tank	Project contractor		
	Operation phase	Deterioration of water quality in the dry stretch of river due to reduced flow during the lean season.	0.63 cumec will	• HPSEB		
		Disposal of sewage from project colony.	Commissioning of Sewage Treatment Plant (STP)	• HPSEB		
		Eutrophication problem	Eutrophication risks are minimal; hence, specific management measures are not required.			
	Water Resour	ces				
	Operation	River stretch from	Minimum flow	• HPSEB		
	phase	barrage site to tailrace outfall will have reduced flow	0.63 cumec will be released for dilution of			

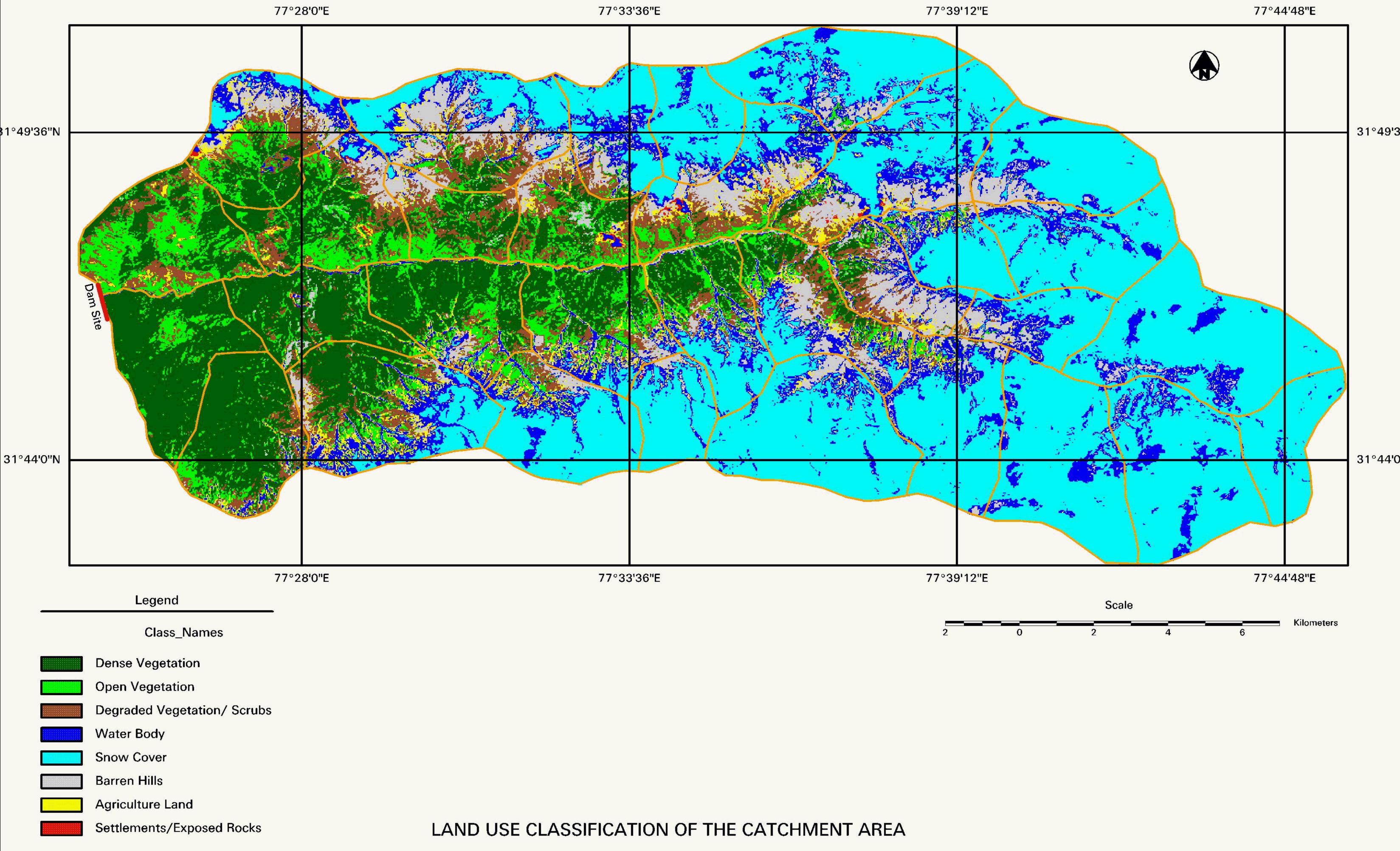
S. No.	Parameters	Impact	Management Measures	Implementing Agency
		during lean season.	domestic effluent.	
2.	AIR ENVIRON	MENT		
	Construction phase	Fugitive emissions due to crusher operation at various sites.	Commissioning of cyclone on crusher.	Project contractor
		Increased in SPM level due to vehicular movement during construction	Provision of water sprinkler to settle SPM	Project contractor
		Emission of SO <sub>2</sub> due to combustion of fuel in construction equipment	SO <sub>2</sub> not expected to increase significantly	-
3.	NOISE ENVIRO	ONMENT	<u> </u>	<u> </u>
	Construction phase	Marginal increase in noise levels due to operation of various construction equipment.	<ul> <li>Maintenance of construction equipment</li> <li>Provision of ear plug/ear muff</li> </ul>	-
4.	LAND ENVIRO	NMENT	1	
	Construction Phase	Erosion due to quarrying operation for coarse and fine aggregate	Proper mining plan for quarrying operation	Project     Contractor     and HPSEB
			Rehabilitation     plan for quarry     after     construction is     over	
		Generation of Muck due to underground work	Disposal of Muck at designated muck disposal site	Project     Contractor     and HPSEB
			Restoration of	

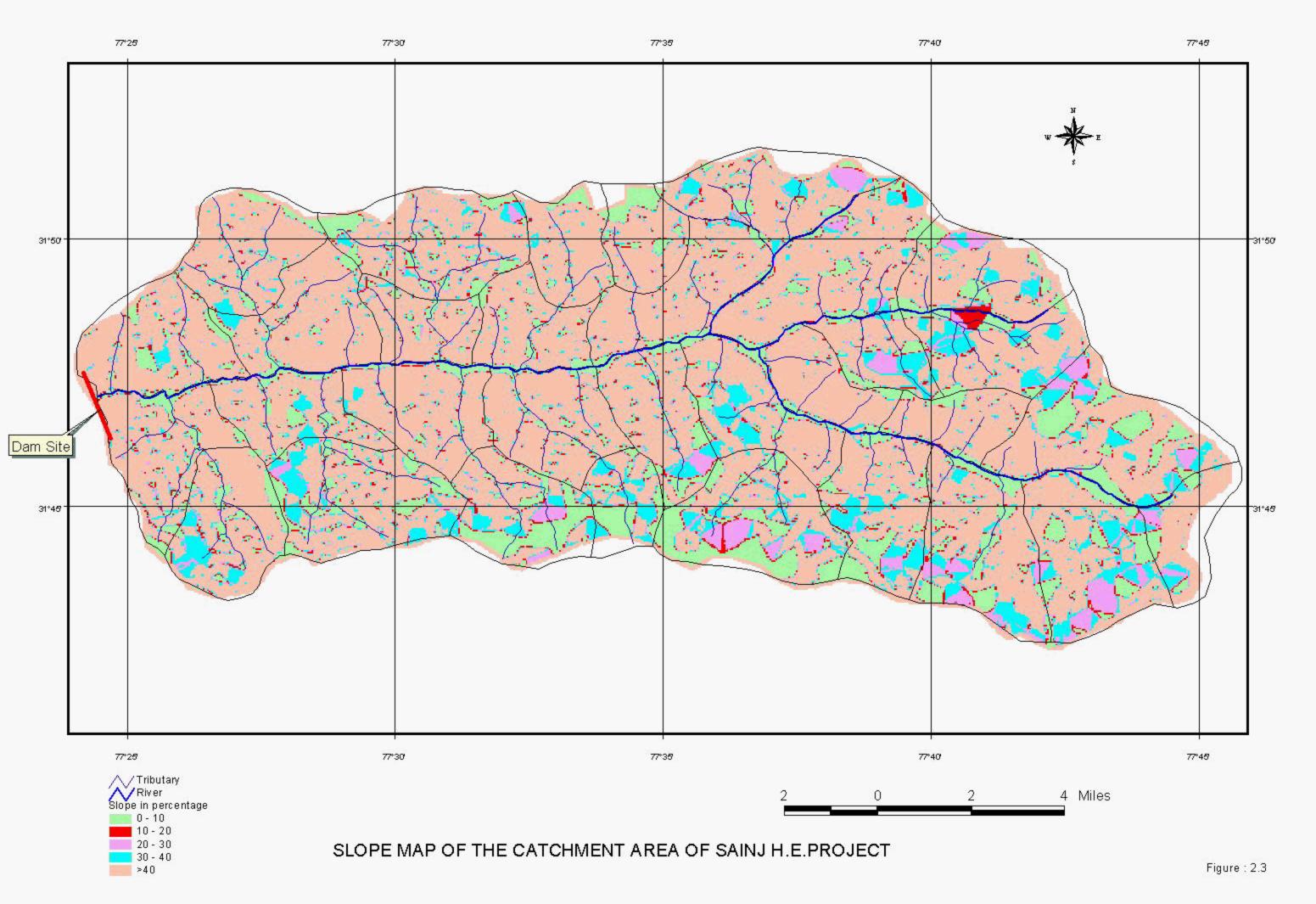
S. No.	Parameters	Impact	Management Measures	Implementing Agency		
	rarameters	Erosion due to construction of road      Acquisition of about 56.763 ha forest and private land	Muck disposal sites of disposal is over.  Cut-slope to be protected by breast walls  Provision of catch water and intercepting drain  Treatment of unstable area above the underneath the road  Plantation of tree along the road side.  Compensatory afforestation in lieu of forest land  Net productivity value and cost of tree to be cut to be given to forest deptt.	-		
			<ul> <li>Compensation for private land as decided by Revenue deptt.</li> </ul>			
5.	BIOLOGICAL ENVIRONMENT					
	Terrestrial Flo					
	Construction phase	Cutting of trees for meeting fuel wood requirements by labour.	<ul> <li>Provision of subsidized kerosene and LPG to construction</li> </ul>	<ul><li>Project Contractor/ HPSEB</li></ul>		

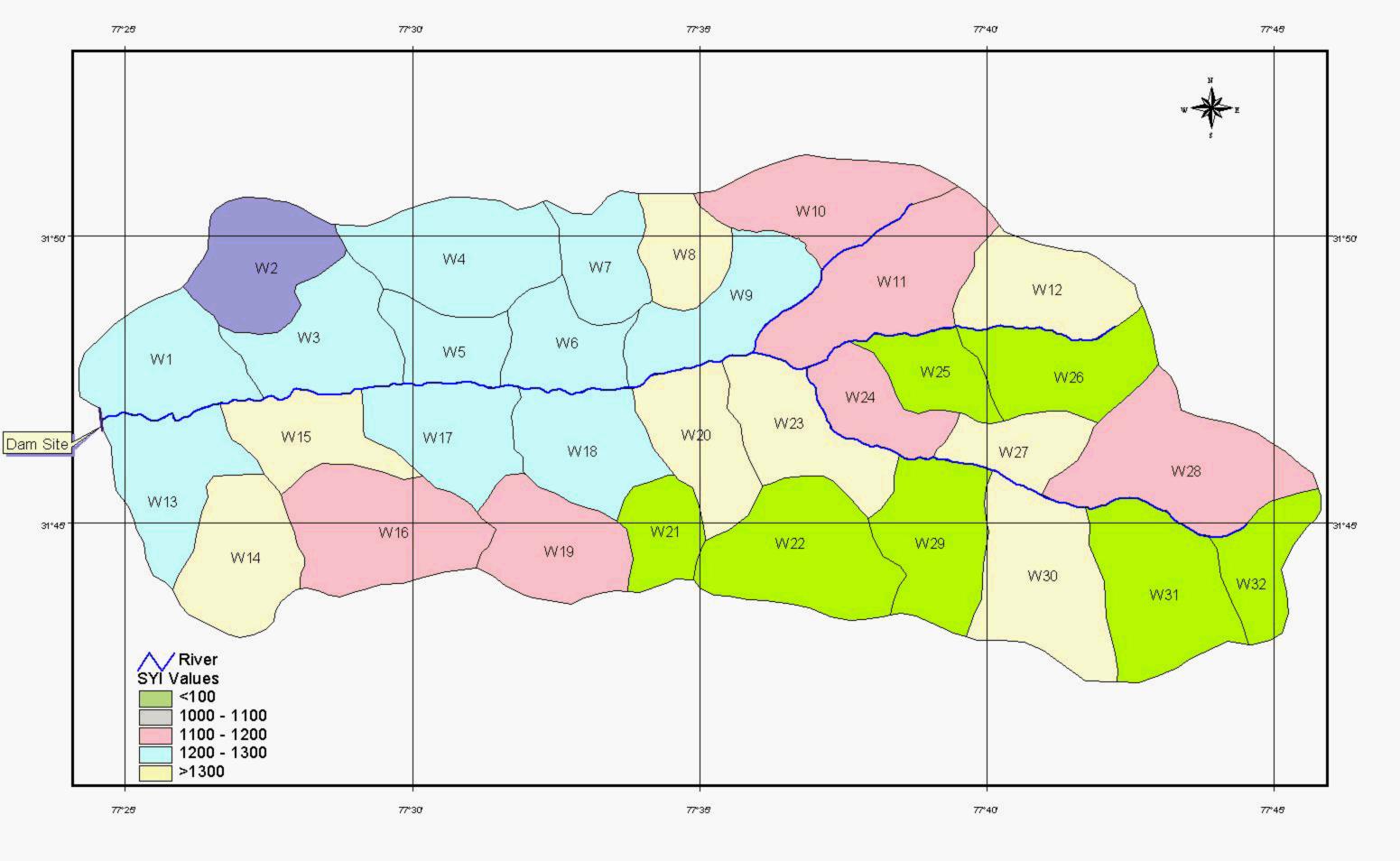
S. No.	Parameters	Impact	Management Measures	Implementing Agency	
	Operational phase	<ul> <li>Acquisition of about 47.993 ha forestland.</li> </ul>	labour and technical staff.  • Compensatory afforestation.	Forest     Department	
	Terrestrial Fau	ina			
	Construction phase	Disturbance to wildlife due to operation of various construction equipment.	Surveillance through check post is recommended.	-	
		Disturbance to wildlife due to increased accessibility in the area.	Surveillance through check posts is recommended.	Director,     GHNP	
	Operation phase	Disturbance to wildlife in GHNP due to increased accessibility.	Marginal impact anticipated which could be minimized by strict antipoaching law.	Director,     GHNP	
			<ul> <li>Formulation of Sainj valley conservation cell</li> </ul>		
	Aquatic Ecolog		I	I	
	Construction phase	Marginal decrease in aquatic productivity due to increased turbidity and lesser light penetration.	Marginal impact, hence no specific management measures are suggested.	Project     Contractor	
	Operation phase	Obstruction in the path of migratory fishes.	<ul> <li>Provision of fish ladder in the barrage</li> </ul>	Fisheries     Department	

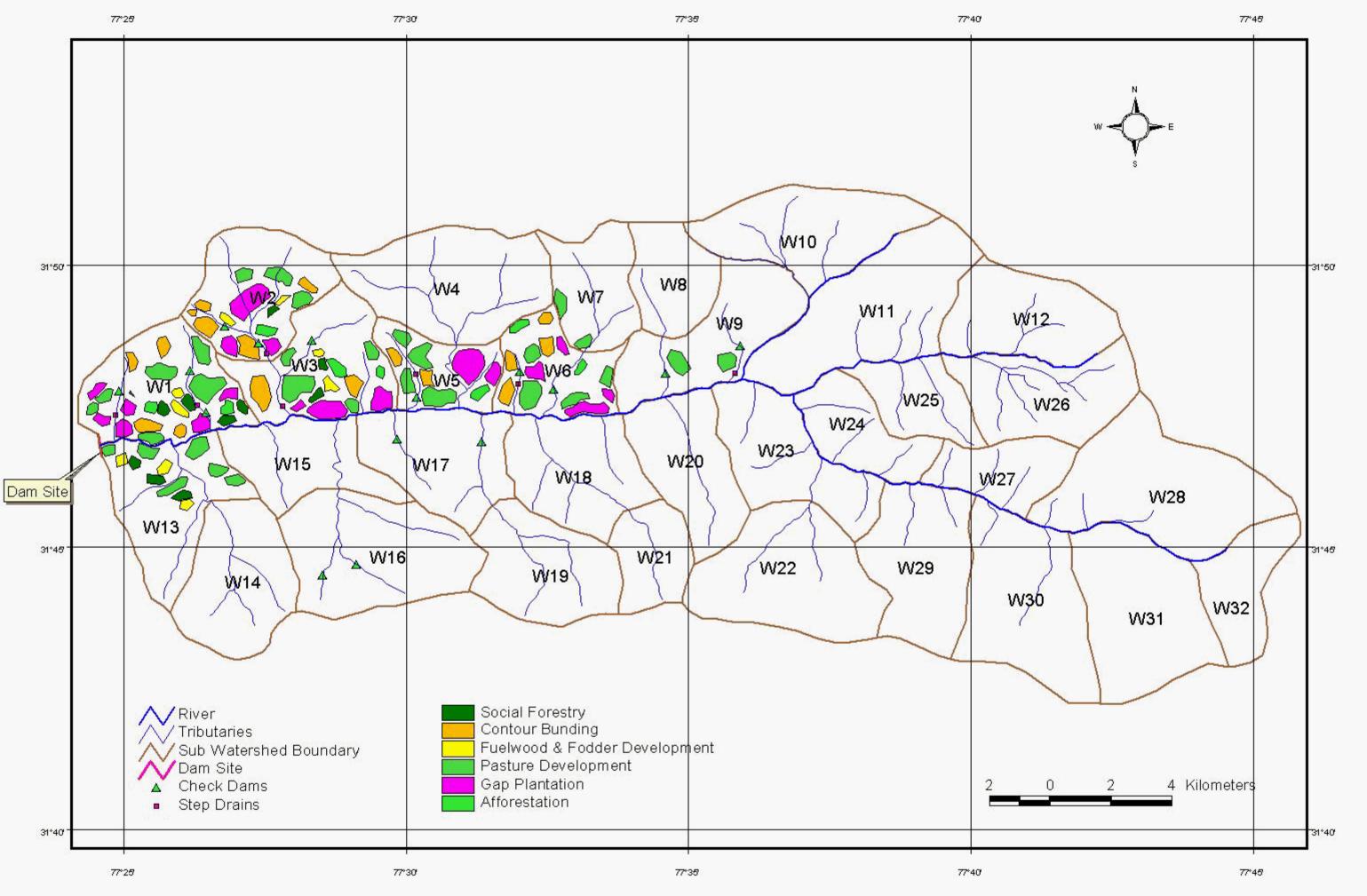
S. No.	Parameters	Impact	Management Measures	Implementing Agency
		Drying of river stretch downstream of barrage up to tail race outfall.	Development of hatchery for artificial seed and production and stocking of reservoir & river stretch.	• HPSEB
			Release of minimum flow 0.63 cumec	• HPSEB
6.		MIC ENVIRONMENT		
	Construction phase	<ul> <li>Increase in employment potential.</li> </ul>	-	
		<ul> <li>Acquisition of land</li> </ul>	<ul> <li>Compensation as per R&amp;R package.</li> </ul>	• HPSEB
	Operation phase	Increased power generation	-	-
		<ul> <li>Greater employment opportunity</li> </ul>	-	-

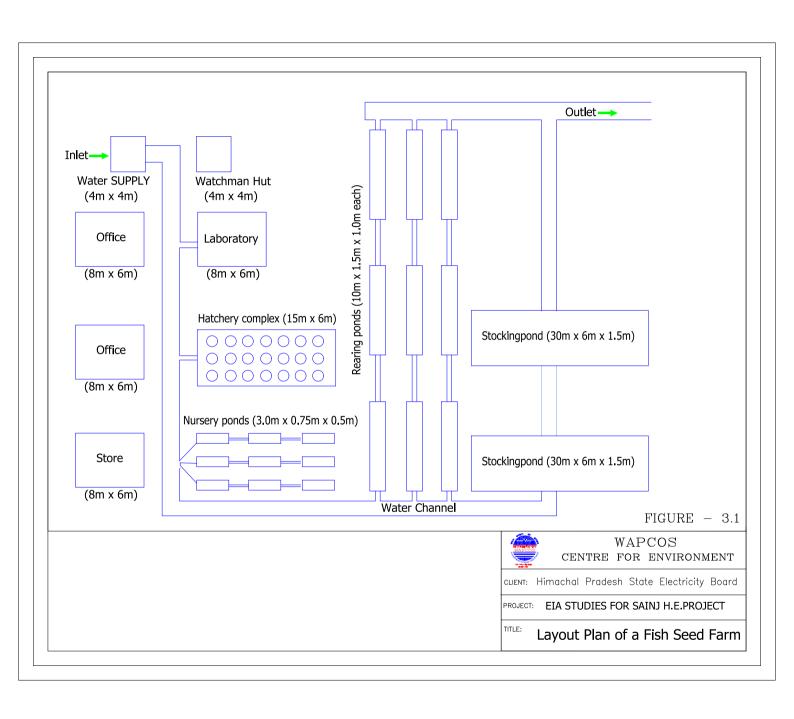


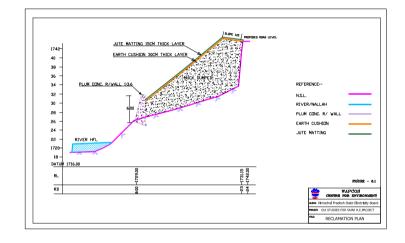












#### ANNEXURE - I

#### SCHEME FOR COMPENSATORY AFFORESTATION

Detail scheme for Compensatory Afforestation to be carried out in lieu of 41.94 ha of forest area to be diverted for Sainj Hydro-electric Project (100 MW) in Kullu District H.P.

# 1. Details of degraded forest land/non-forest land

District: Kullu, Village: Bah, Neuli, Kareihla, Sub-The: Sainj, Teh.: Banjar

Name of Forest Division: GHNP, Shamshi, Range: Jiwanala

Block/Compartment/Survey No. DEUN & Railla Block

Area to be afforested: 83.88 lac.

# 2. Description of Area:

- i) Whether the site selected for compensatory/Afforestation is a land bank or not: DPF & UPF (Govt. land).
- ii) If the CA site is other than land bank, reasons be given: No
- iii) In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: Nil
- iv) Soil type: Hilly soil
- v) Topography : a. Hilly/undulating/plain Hilly

b. Slope: Steep/Medium/Gentle: Medium

vi) Whether the area is bearing any root stock of vegetation: No.

#### 3. Plantation Model:

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up to be enclosed.

# **Schedule of Plantation Programme:**

Details of year wise break up of requirement of funds is as under:

Year	Area (ha)	Rate/ha	Total Amount
0 <sup>th</sup> year	83.88	-	35,10,261.34
1 <sup>st</sup> year	83.88	32.00.56	2,68,502.4408
2 <sup>nd</sup> year	83.88	2799.43	2,34,866.24
3 <sup>rd</sup> year	83.88	2229.435	1,87,054.184
4 <sup>th</sup> year	83.88	2000.00	1,67,761.6
5 <sup>th</sup> year	83.88	1500.00	1,25,821.2
6 <sup>th</sup> year	83.88	1250.00	1,04,851.00
7 <sup>th</sup> year	83.88	1250.00	1,04,851.00
Total (1-7 <sup>th</sup> year)			11,93,707.665
7.15% increase			85,350.60
(increase in wage rate			
@ 75/day)			
Total			47,89,319.005
Additional contingencies			2,39,465.95
@ 5% as above			
G.Total			50,28,784.955
Additional Departmental			8,80,037.37
Charges @ 17.50%			
Total Cost H/A			59,08,822.325

Say Rs. 59,08,822.00

# 4. Technical Details

Technical details of Compensatory Afforestation Scheme are as follows:

- a) General details : Mixed Plantation of conifees and Broad leave, naked & P-Bags Plants
- b) Spacement: 45 x 45x 45 cm (Broad leaved app.) 30 x 30 x 30 (conifees)
- c) Species: Deodar, Rubenia, Ban ock
- d) Plantation Methoc: Poly bag raised plantation
- e) Soil & moisture conservation works: Contour trenches, mulching @ 25% of initial cost.
- f) Protection (Fencing, watchman, people's participation etc.):
  Barbed wire Fencing (4 starched)

g)	Proposed Monitoring Mechanism: Through Deptt. & other agencies	recommended
h)	Any other information : Nil	
		Sd/-

**Divisional Forest Officer** 

# **Detailed Cost**

Compensatory Afforestation Plan for 83.8808 ha Compensatory Plantation in Jeewanal Wildlife Range of GHNP during 2006-07

S.No.	Particulars	Units	Qty.	Rate/unit	Amount
1.	Survey and demarcation of plantation area including preparation of map	ha	83.8803	47.75	4005.284325
2.	Bush cutting in plantation site		83.8803	556.75	46700.35703
3.	Preparation of inspection path 60 cm wide	Rmt	20970.08	5.1	106947.3825
4.	Cutting and preparation of fence posts 1.80 Mtr longland 8 to 10 cm dia (including)	Nos	5094	6.0445	30790.683
5.	Carriage of fence posts over a lead of 1 km	Nos	5094	3.1815	16206.561
6.	Preparation/digging of holes 20-30 cm dia and 45 cm deep	Nos.	5094	4.2315	21555.261
7.	Fixing of fence posts including strutting	Nos.	5094	3.249	16550.406
8.	Carriage of Barbed wire over average uphill lead of 1 km	Qtl.	82.9325	79.6	6601.427
9.	Stretching and fixing of barbed wire with U-steples (4strand)	Rmt	60422.25	8.8	531715.8
10.	Interlacing of thorny bushes in barbed wire obtained from plantation site	Rmt	15164.8	1.9	28813.12
11.	Layout of Pits	На	83.8803	79.6	6676.87188
12.	Digging of pits 45*45*45cm (40% of total)	Nos.	33528	4.454	149333.712
13.	Digging of pits 30*30*30 cms	Nos.	58764	2.2275	130896.81
14.	Filling of pits 45*45*45 cms	Nos	33528	1.273	42681.144
15.	Filling of pits 30*30*30 cms	Nos.	58764	0.891	52358.724
16.	Carriage of nacked root plants over a lead of 2 kms	Nos.	33528	0.165	5532.12
17.	Carriage of plants in P/bages over distance of 2 kms	Nos.	58764	1.017	59762.988
18.	Planting of entire plants raised in P/bags	Nos	58764	1.0185	59851.134
19.	Planting of nacked root plants	Nos	33528	0.858	28767.024
20.	Nursery cost of plants	Nos	92292	5	461460
					1807206.81
	7.15% increase (increase in wage rate to @ 75/day)				129215.86
	Subtotal (s.No. 1 to 20)				1936422.67
21	Soil and moisture	На	83.8803	25% of	484105.67

	conservation works 25% of			initial	
	initial planting cost at S.No.			planting	
	20)			cost	
22.	Add cost of B/wire including	Qtl.	75.492	3200	242944
	cost of U.nails				
23.	Cost of Fence post (Broad leaved species)	Cum	152.85	5540	846789
	Total (S.No. 1 to 23)				3510261.34
24	Year wist maintenance cost				
i)	1 <sup>st</sup> year		83.88	3201	268502.4408
ii)	2 <sup>nd</sup> vear		83.88	2800	234866.24
iii)	13° vear		83.88	2230	187054.184
iv)	4" year		83.88	2000	167761.6
v)	5 <sup>th</sup> year		83.88	1500	125821.1
vi)	16"' vear		83.88	1250	104851
vii)	7 <sup>th</sup> year		83.88	1250	104851
-					1193707.665
	7.15% increase (increase in				85350
	wage rate to @ 75/day)				
	Sub total (i-vii)				1279057.665
	Total (S.No. 1 to 24)				4789319.005
	Additional contingencies @ 5% as above				239465.95
	Grand Total				5028784.955
	Additional departmental				880037.37
	charges @ 17.50%				
	Total Cost H/A				5908822.325
				Or say	5908822
	Name of Areas to be planted:				
	Karaikia UDE	40.00			
1.	Kareihla UPF	13.88			
2.	Riara UPF	ha 10 ha			
3.	Banaugi UPF	10 ha			
4	Ranaga UPF	10 ha			
5.	Mail UPF	10 ha		<del> </del>	
6.	Thnour DPF	10 ha			
7.	Sawankanda DPF	10 ha			
8.	Ratana UPF (Range)	10ha			
	( tango)	83.8808			
		ha			
1	•				*

**Block Officer** 

**Range Forest Officer** 

ANNEXURE III

LIST OF PAFS WITH CONSOLIDATED ACQUIRED, TOTAL AND BALANCE LAND AND PROPORT ION ACQUIRED AND BALANCE WITH THEM

S.NO. VILLAGE	PAP_NAME	FATHER_NAME	ACQ-I_HA	TL-I_HA	BAL-I_HA	% ACQ. %	BAL. REMARKS
1 FATI GADA PARLI KOTI SHAINSHAR	AJAM KUMAR	UTTAM CHANDRA S/O VIRU	0.00068669	0.04469741	0.04401071	1.5	98.5 RENDERED MARGINAL FARMER
2 FATI GADA PARLI KOTI SHAINSHAR	BHADAR SINGH	FATA CHAND S/O JHOKA	0.00809289	0.02951524	0.02142235	27.4	72.6 RENDERED MARGINAL FARMER
3 FATI GADA PARLI KOTI SHAINSHAR	BHAG CHAND	LAGNA CHAND S/O NEEKA RAM @ NEEKU	0.00292243	0.11419963	0.11127720	2.6	97.4 RENDERED MARGINAL FARMER
4 FATI GADA PARLI KOTI SHAINSHAR	BHAVE RAM	BHADU	0.04071734	0.22173246	0.18101512	18.4	81.6 RENDERED MARGINAL FARMER
5 FATI GADA PARLI KOTI SHAINSHAR	BUDH RAM	MEHAR CHAND S/O CHAMRU	0.00809289	0.48759644	0.47950356	1.7	98.3 RENDERED MARGINAL FARMER
6 FATI GADA PARLI KOTI SHAINSHAR	CHANDER RAM	SHAUNU S/O MEDU	0.19422929	1.83438773	1.64015844	10.6	89.4 RENDERED SMALL FARMER
7 FATI GADA PARLI KOTI SHAINSHAR	CHANDRA SAIN	UTTAM CHANDRA S/O VIRU	0.00068669	0.04469741	0.04401071	1.5	98.5 RENDERED MARGINAL FARMER
8 FATI GADA PARLI KOTI SHAINSHAR	CHHAPE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU	0.00292243	0.11419963	0.11127720	2.6	97.4 RENDERED MARGINAL FARMER
9 FATI GADA PARLI KOTI SHAINSHAR	DALIP KUMAR	UTTAM CHANDRA S/O VIRU	0.00068669	0.04469741	0.04401071	1.5	98.5 RENDERED MARGINAL FARMER
10 FATI GADA PARLI KOTI SHAINSHAR	DASHARAT	KADASHU S/O SANGAT RAM	0.00876729	0.34259888	0.33383159	2.6	97.4 RENDERED MARGINAL FARMER
11 FATI GADA PARLI KOTI SHAINSHAR	DEV RAM @ DEV RAJ	JAI S/O KHIMU	0.00233795	0.09135970	0.08902176	2.6	97.4 RENDERED MARGINAL FARMER
12 FATI GADA PARLI KOTI SHAINSHAR	DHARM VEER	UTTAM CHANDRA S/O THAKAR DAS	0.00050136	0.03263390	0.03213254	1.5	98.5 RENDERED MARGINAL FARMER
13 FATI GADA PARLI KOTI SHAINSHAR	DIKAM CHAND	SAKAT RAM S/O MADU	0.00674407	0.03746707	0.03072300	18.0	82.0 RENDERED MARGINAL FARMER
14 FATI GADA PARLI KOTI SHAINSHAR	DOLA SINGH	TOB RAM S/O CHHAPE RAM	0.00404644	0.01475762	0.01071117	27.4	72.6 RENDERED MARGINAL FARMER
15 FATI GADA PARLI KOTI SHAINSHAR	DUNI CHAND	RADHE RAM @ EECHHE RAM S/O T ULE RAM	0.01416255	0.51508846	0.50092591	2.7	97.3 RENDERED MARGINAL FARMER
16 FATI GADA PARLI KOTI SHAINSHAR	DYAN CHAND	JAI S/O KHIMU	0.00233795	0.09135970	0.08902176	2.6	97.4 RENDERED MARGINAL FARMER
17 FATI GADA PARLI KOTI SHAINSHAR	FAGNU	TULA RAM S/O PRIMU	0.02225544	1.61857741	1.59632197	1.4	98.6 RENDERED SMALL FARMER
18 FATI GADA PARLI KOTI SHAINSHAR	FATA CHAND	JHOKA S/O ANANT RAM	0.01618577	0.05903047	0.04284470	27.4	72.6 RENDERED MARGINAL FARMER
19 FATI GADA PARLI KOTI SHAINSHAR	GAVE RAM	HARFI RAM S/O PARAS RAM	0.02225544	0.12193658	0.09968114	18.3	81.7 RENDERED MARGINAL FARMER
20 FATI GADA PARLI KOTI SHAINSHAR	GEHAR SINGH	JAI S/O KHIMU	0.00098913	0.06438341	0.06339428	1.5	98.5 RENDERED MARGINAL FARMER
21 FATI GADA PARLI KOTI SHAINSHAR	GELU	NEEKU S/O TULLU	0.00674407	0.03746707	0.03072300	18.0	82.0 RENDERED MARGINAL FARMER
22 FATI GADA PARLI KOTI SHAINSHAR	GYANU	PARI S/O HARFU	0.00741848	0.53952580	0.53210732	1.4	98.6 RENDERED MARGINAL FARMER
23 FATI GADA PARLI KOTI SHAINSHAR	HARAJ MAL	UTTAM CHANDRA S/O THAKAR DAS	0.00050136	0.03263390	0.03213254	1.5	98.5 RENDERED MARGINAL FARMER
24 FATI GADA PARLI KOTI SHAINSHAR	HARI CHANDRA	KADSHU @ KADSHI RAM S/O SANGAT RAM	0.02832510	0.39614682	0.36782172	7.2	92.8 RENDERED MARGINAL FARMER
25 FATI GADA PARLI KOTI SHAINSHAR	HET RAM	UTTAM CHANDRA S/O VIRU	0.00068669	0.04469741	0.04401071	1.5	98.5 RENDERED MARGINAL FARMER
26 FATI GADA PARLI KOTI SHAINSHAR	ISHAR DAS	ANU S/O KADASHU	0.00292243	0.11419963	0.11127720	2.6	97.4 RENDERED MARGINAL FARMER
27 FATI GADA PARLI KOTI SHAINSHAR	KAHAN CHAND	SALAG RAM	0.01551137	0.08446951	0.06895814	18.4	81.6 RENDERED MARGINAL FARMER
28 FATI GADA PARLI KOTI SHAINSHAR	KHELI RAM	JEET RAM S/O SHAUJU	0.00809289	0.04496048	0.03686760	18.0	82.0 RENDERED MARGINAL FARMER
29 FATI GADA PARLI KOTI SHAINSHAR	KHUB RAM	KHIMU S/O SANGAT RAM	0.01168973	0.45679851	0.44510879	2.6	97.4 RENDERED MARGINAL FARMER
30 FATI GADA PARLI KOTI SHAINSHAR	LAL CHAND	KHIMU S/O SANGAT RAM	0.01168973	0.45679851	0.44510879	2.6	97.4 RENDERED MARGINAL FARMER
31 FATI GADA PARLI KOTI SHAINSHAR	LAL SINGH	DAULAT RAM S/O CHET RAM	0.00404644	0.01475762	0.01071117	27.4	72.6 RENDERED MARGINAL FARMER
32 FATI GADA PARLI KOTI SHAINSHAR	MAHINDRA SINGH	SMT. ISHRU D/O KUNDAL	0.00944170	0.13204894	0.12260724	7.2	92.8 RENDERED MARGINAL FARMER
33 FATI GADA PARLI KOTI SHAINSHAR	MANI RAM	PARI S/O HARFU	0.01461216	0.97294486	0.95833271	1.5	98.5 RENDERED MARGINAL FARMER
34 FATI GADA PARLI KOTI SHAINSHAR	MEHAR SINGH	JAI S/O KHIMU	0.00134881	0.02697629	0.02562748	5.0	95.0 RENDERED MARGINAL FARMER
35 FATI GADA PARLI KOTI SHAINSHAR	MOHAN SINGH	ANUP S/O SMAAM	0.01163353	0.06335213	0.05171861	18.4	81.6 RENDERED MARGINAL FARMER
36 FATI GADA PARLI KOTI SHAINSHAR	MOHAR SINGH	RAM SARU S/O DILE RAM	0.00809289	0.02951524	0.02142235	27.4	72.6 RENDERED MARGINAL FARMER
37 FATI GADA PARLI KOTI SHAINSHAR	MOHAR SINGH	SMT. ISHRU D/O KUNDAL	0.00944170	0.13204894	0.12260724	7.2	92.8 RENDERED MARGINAL FARMER
38 FATI GADA PARLI KOTI SHAINSHAR	MOTI RAM	SALAG RAM	0.01551137	0.08446951	0.06895814	18.4	81.6 RENDERED MARGINAL FARMER
39 FATI GADA PARLI KOTI SHAINSHAR	NARU RAM	TEJ RAM S/O BHADU	0.00674407	0.03746707	0.03072300	18.0	82.0 RENDERED MARGINAL FARMER
40 FATI GADA PARLI KOTI SHAINSHAR	NIDHI SINGH	RAJU S/O DHANI RAM	0.01163353	0.06335213	0.05171861	18.4	81.6 RENDERED MARGINAL FARMER
41 FATI GADA PARLI KOTI SHAINSHAR	NOKH SINGH	CHHAPE RAM S/O RAM LAL	0.00674407	0.03746707	0.03072300	18.0	82.0 RENDERED MARGINAL FARMER
42 FATI GADA PARLI KOTI SHAINSHAR	PASHARU	KADASHU S/O SANGAT RAM	0.00370924	0.24143780	0.23772856	1.5	98.5 RENDERED MARGINAL FARMER
43 FATI GADA PARLI KOTI SHAINSHAR	PURUSHOTAM LAL	LOTAM RAM S/O SABJA CHAND	0.00809289	0.48759644	0.47950356	1.7	98.3 RENDERED MARGINAL FARMER
44 FATI GADA PARLI KOTI SHAINSHAR	RAM SARAN H/O	SMT. ISHRU D/O KUNDAL	0.03776681	0.52819576	0.49042895	7.2	92.8 RENDERED MARGINAL FARMER
45 FATI GADA PARLI KOTI SHAINSHAR	RAMESH CHANDRA	SHAUJU S/O ALAM CHANDRA	0.02913439	2.11386209	2.08472770	1.4	98.6
46 FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND	BHADU	0.04071734	0.22173246	0.18101512	18.4	81.6 RENDERED MARGINAL FARMER
47 FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND	NEEKU S/O SANGAT RAM	0.01168973	0.45679851	0.44510879	2.6	97.4 RENDERED MARGINAL FARMER
48 FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND F/O	SMT. LEELU D/O SMT. PURNU	0.05665021	0.79229364	0.73564343	7.2	92.8 RENDERED MARGINAL FARMER
49 FATI GADA PARLI KOTI SHAINSHAR	SATISH KUMAR	GURDYAL SINGH S/O CHET RAM	0.00404644	0.01475762	0.01071117	27.4	72.6 RENDERED MARGINAL FARMER
50 FATI GADA PARLI KOTI SHAINSHAR	SHANU	PARI S/O HARFU	0.00719368	0.43341906	0.42622538	1.7	98.3 RENDERED MARGINAL FARMER
51 FATI GADA PARLI KOTI SHAINSHAR	SHER SINGH	ANUP S/O SMAAM	0.01163353	0.06335213	0.05171861	18.4	81.6 RENDERED MARGINAL FARMER
52 FATI GADA PARLI KOTI SHAINSHAR	SHER SINGH	GAVE RAM S/O HARFI RAM	0.00674407	0.03746707	0.03171861	18.0	82.0 RENDERED MARGINAL FARMER
53 FATI GADA PARLI KOTI SHAINSHAR	SMT. BHAGATI DEVI WD/O	SHAUJU S/O ALAM CHANDRA	0.00728360	0.52846552	0.52118193	1.4	98.6 RENDERED MARGINAL FARMER
54 FATI GADA PARLI KOTI SHAINSHAR	SMT. CHITU D/O	KUNDAL S/O BHAGDU/ MADU	0.05665021	0.79229364	0.73564343	7.2	92.8 RENDERED MARGINAL FARMER
55 FATI GADA PARLI KOTI SHAINSHAR	SMT. DOLMA D/O	JAI S/O KHIMU	0.00233795	0.09135970	0.73364343	2.6	97.4 RENDERED MARGINAL FARMER
56 FATI GADA PARLI KOTI SHAINSHAR	SMT. FAGNI D/O	NEEKU S/O SANGAT RAM	0.00233793	0.13488145	0.12813738	5.0	95.0 RENDERED MARGINAL FARMER
JULIAN CADA PARLI ROTI SHAMBHAR	JOWIT. I AONI D/O	INCLINE O/O ONINONI INNI	0.00014401	0.1000140	0.12013130	3.0	00.0 INCREDENCE MANGINAL I ANWER

S.NO.	VILLAGE	PAP NAME	FATHER NAME	ACQ-I HA	TL-I HA	BAL-I HA	% ACQ.	% BAL.	REMARKS
	FATI GADA PARLI KOTI SHAINSHAR	SMT. HARI DEVI D/O	PARI S/O HARFU	0.00921690	0.64788057	0.63866367	1.4		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	SMT. HIULI WD/O	ANUP S/O SMAAM	0.02326705		0.10343721	18.4		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	SMT. KAATKI D/O	MAADU S/O CHATTHER	0.02320703		0.22887696	0.5		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	SMT. KAGNI D/O	NEETHU S/O SANGAT RAM	0.00126451	0.32191706	0.31697141	1.5		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	SMT. KALKI WD/O	ANU S/O KADASHU	0.00292243		0.31697141	2.6		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	SMT. RADHU D/O	HARFI RAM S/O VALE RAM	0.00015806		0.02860962	0.5		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	SMT. RIKMU DEVI WD/O	JAI S/O KHIMU	0.00233795	0.09135970	0.08902176	2.6		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	SMT. SAVITRI DEVI W/O	SHYAM SUNDAR S/O KRISHNA LAL	0.00809289		0.49771255	1.6		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	SMT. SAVITRI DEVI W/O	UTTAM CHAND	0.00505805	0.10116109	0.09610303	5.0		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	SMT. SEPATU D/O	HARU S/O KESARU	0.10116109		0.24683305	29.1		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	SMT. TULAJU D/O	KUNDAL S/O BHAGDU/ MADU	0.05665021	0.79229364	0.73564343	7.2		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	THAKAR DAS	LAGNA CHAND S/O NEEKA RAM @ NEEKU	0.01101532	0.14371486	0.13269954	7.7		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	TULE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU	0.00292243		0.11127720	2.6		RENDERED MARGINAL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	TULU	JHOJHA S/O GODANU	0.01011611		1.83101569	0.5		RENDERED SMALL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	UTTAM CHANDRA	VEERU S/O MADU	0.00869353	1.58222264	1.57352911	0.5		RENDERED SMALL FARMER
	FATI GADA PARLI KOTI SHAINSHAR	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM	0.03810401	1.12315784	1.08505383	3.4		RENDERED SMALL FARMER
73	FATI GADA PARLI KOTI SHAINSHAR	VINOD KUMAR	JAMDEV S/O CHET RAM	0.00809289	0.02951524	0.02142235	27.4		RENDERED MARGINAL FARMER
74	FATI GADA PARLI KOTI SHAINSHAR	VIRU	KADASHU S/O SANGAT RAM	0.00505805	0.10116109	0.09610303	5.0	95.0	RENDERED MARGINAL FARMER
75	FATI GADA PARLI KOTI SHAINSHAR	VISHAN DAS	ANU S/O KADASHU	0.00292243	0.11419963	0.11127720	2.6		RENDERED MARGINAL FARMER
76	FATI SHAINSHAR KOTI SHAINSHAR	AIN SINGH	BELI RAM S/O JAISI RAM	0.00305731	0.03363044	0.03057313	9.1	90.9	RENDERED MARGINAL FARMER
77	FATI SHAINSHAR KOTI SHAINSHAR	ARJAN SINGH	JAISI RAM S/O FAGNU	0.01910821	0.21019026	0.19108206	9.1	90.9	RENDERED MARGINAL FARMER
78	FATI SHAINSHAR KOTI SHAINSHAR	BALBIR SINGH	BELI RAM S/O JAISI RAM	0.00305731	0.03363044	0.03057313	9.1	90.9	RENDERED MARGINAL FARMER
79	FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O JAISI RAM	FAGNU RAM S/O KALI RAM S/O BALI RAM	0.23267050	4.90226632	4.66959582	4.7	95.3	,
	FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O MADU	MOTU	0.23267050	4.90226632	4.66959582	4.7	95.3	,
	FATI SHAINSHAR KOTI SHAINSHAR	BANWARI LAL	KANSHI RAM S/O PARIDUTT	0.04107140		0.13919766	22.8		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	ALAM CHAND S/O MANGLU	0.01780435		0.02266008	44.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	KURM DUTT S/O KADSU	0.07452200	0.25610615	0.18158415	29.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	BHADAR	RAMU S/O VIRU	0.02967392	0.02967392	0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	BHAVE RAM	MANU S/O BHIKHU	0.00354064		0.02010577	15.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	BHUMI CHAND	KARAM CHAND S/O FATE RAM	0.20839184		0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	BHUMI SINGH	HAMAM CHAND S/O DILE RAM	0.21446151	0.21446151	0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	BHURI SINGH	GOVIND RAM S/O DOLU	0.00809289		0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	BOLU RAM	CHALAKI	0.01213933	0.01213933	0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	BUDHU	TULU S/O CHUHDU	0.06923914		0.36979998	15.8		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	CHAINU D/O	AMAR CHAND S/O CHAINU	0.00923914		0.00166618	44.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	CHET RAM	SANGAT RAM S/O KALI RAM	0.44773898	0.76336157	0.31562259	58.7		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	CHET RAM	UDE RAM S/O RULADU	0.43094623		0.34316089	55.7		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR			0.43094623	0.04817195				RENDERED MARGINAL FARMER
		CHUNI LAL	PARMANAND			0.04778657	0.8 64.9		
	FATI SHAINSHAR KOTI SHAINSHAR	DABE RAM	SES RAM S/O TULSI RAM	0.02529027	0.03894702	0.01365675			RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	DAULAT SINGH	HARI SINGH S/O MADHU	0.02731349		0.71824372	3.7		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	DELI RAM	KARAM DAS S/O UTTAM RAM	0.02650421		0.17581797	13.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	DEVI SINGH	GOVIND RAM S/O DOLU	0.00809289	0.00809289	0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	DEVI SINGH	KAHAN CHAND S/O ANANT RAM	0.00231225	0.28903168	0.28671943	0.8		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	DEVLU DEVI D/O	AMAR CHAND S/O CHAINU	0.00130914		0.00166618	44.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	DEVTHA RISHA VAHATMAM PARIDUT	CHANDE RAM S/O RATI RAM	0.20636862		4.32160168	4.6		
	FATI SHAINSHAR KOTI SHAINSHAR	DHUP SINGH	SABJA CHANDRA S/O BHADU	0.05001854		0.95608468	5.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	DILE RAM	KADSHU S/O TULU	0.41187014	1.20771887	0.79584873	34.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	DINE RAM	ALAM CHAND S/O MANGLU	0.01780435		0.02266008	44.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	DURGA DEVI D/O	BELI RAM S/O JAISI RAM	0.00305731	0.03363044	0.03057313	9.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	DURGA M/O	SARVADAYAL S/O FATA RAM	0.05011925	0.08368045	0.03356120	59.9		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	DURGU	CHANDA S/O RAMU	0.02967392		0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	DURGU	RAMU	0.01416255	0.09458562	0.08042306	15.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	ELU RAM	PARAS RAM S/O MOTI RAM	0.05058054		0.02731349	64.9		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	FATA CHAND	JAISI RAM S/O FAGNU	0.01910821	0.21019026	0.19108206	9.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	FATA CHAND	TARA CHAND S/O RILE RAM	0.03877842	0.10453312	0.06575471	37.1		RENDERED MARGINAL FARMER
112	FATI SHAINSHAR KOTI SHAINSHAR	FATA RAM	NAGENU RAM S/O THOLU RAM	0.00809289	0.00809289	0.00000000	100.0	0.0	RENDERED LANDLESS
113	FATI SHAINSHAR KOTI SHAINSHAR	FULA D/O	NAND RAM S/O RAMU	0.01213933	0.01213933	0.00000000	100.0	0.0	RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	FULA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	0.02468331	0.12463046	0.09994715	19.8	80.2	RENDERED MARGINAL FARMER
115	FATI SHAINSHAR KOTI SHAINSHAR	GULAB CHAND	AMAR CHAND S/O CHAINU	0.01854620	0.04215045	0.02360425	44.0	56.0	RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	GURDHYAN SINGH	JHAVE RAM S/O MADU	0.15005561	3.01830966	2.86825405	5.0		
117	FATI SHAINSHAR KOTI SHAINSHAR	HARFI RAM	PARAS S/O MAN CHAND	0.54424665	1.59834519	1.05409854	34.1	65.9	RENDERED SMALL FARMER
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S.NO.	VILLAGE	PAP NAME	FATHER NAME	ACQ-I HA	TL-I HA	BAL-I HA	% ACQ.	% BAL.	REMARKS
	FATI SHAINSHAR KOTI SHAINSHAR	HETI D/O	KAMAL CHAND S/O PARMANAND	0.00192688	0.24085973	0.23893286	0.8		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	HIRA SINGH	SABJA CHANDRA S/O BHADU	0.05001854		0.95608468	5.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	0.03682264		0.09994715	26.9		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	HUMA D/O	KAMAL CHAND S/O PARMANAND	0.00192688	0.24085973	0.23893286	0.8		RENDERED MARGINAL FARMER
122	FATI SHAINSHAR KOTI SHAINSHAR	INDIRA D/O	SARVADAYAL S/O FATA RAM	0.05011925	0.08368045	0.03356120	59.9	40.1	RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	JHADE RAM	(blank)	0.00556386		0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	KHIM DEV	MANI RAM S/O DOTU	0.09306820		1.03184310	8.3		RENDERED SMALL FARMER
125	FATI SHAINSHAR KOTI SHAINSHAR	KHIMI RAM	DEVNU S/O JODHU	0.00989131	0.04563489	0.03574358	21.7	78.3	RENDERED MARGINAL FARMER
126	FATI SHAINSHAR KOTI SHAINSHAR	KHUB RAM	PARAS RAM S/O MOTI RAM	0.05058054	0.07789404	0.02731349	64.9		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	KISHORI LAL	MOTI RAM S/O BHALI	0.00809289		0.04855732	14.3	85.7	RENDERED MARGINAL FARMER
128	FATI SHAINSHAR KOTI SHAINSHAR	KRISHNA KUMAR @ KISHORI LAL	KANSHI RAM S/O PARIDUTT	0.16185774	0.13353264	-0.02832510	121.2	-21.2	* INHERENTLY FAULTY DATA
129	FATI SHAINSHAR KOTI SHAINSHAR	MAAN SINGH	RALU RAM S/O PARIDUTT	0.00404644	0.00404644	0.00000000	100.0	0.0	RENDERED LANDLESS
130	FATI SHAINSHAR KOTI SHAINSHAR	MADAN LAL	KANSHI RAM S/O PARIDUTT	0.07526385	0.23226586	0.15700201	32.4	67.6	RENDERED MARGINAL FARMER
131	FATI SHAINSHAR KOTI SHAINSHAR	MAN CHANDRA	DHANI RAM S/O KATU	0.82952092	2.34693724	1.51741632	35.3	64.7	RENDERED SMALL FARMER
132	FATI SHAINSHAR KOTI SHAINSHAR	MOHAR SINGH	BHADARU RAM S/O RAM	0.07418480	0.07418480	0.00000000	100.0	0.0	RENDERED LANDLESS
133	FATI SHAINSHAR KOTI SHAINSHAR	MOHAR SINGH	JEETU S/O FARETAM	0.28729749	0.28729749	0.00000000	100.0	0.0	RENDERED LANDLESS
134	FATI SHAINSHAR KOTI SHAINSHAR	MOTU	DEVNU S/O RAMU	0.01416255	0.09458562	0.08042306	15.0	85.0	RENDERED MARGINAL FARMER
135	FATI SHAINSHAR KOTI SHAINSHAR	NARPAT	MAN DAS S/O PARSU	0.04451088		0.05665021	44.0	56.0	RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	NEELMA DEVI D/O	BELI RAM S/O JAISI RAM	0.00305731	0.03363044	0.03057313	9.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	NIRENDRA KUMAR	MOHAR SINGH S/O SABJA CHANDRA	0.01000371	0.20122064	0.19121694	5.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	OM PRAKASH	MANI RAM S/O DOTU	0.09306820		0.95091423	8.9		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	PAINU	PARMANAND	0.00038538		0.04778657	0.8		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	PARAS RAM	MANU S/O BHIKHU	0.00354064		0.02010577	15.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	PARAS RAM	(blank)	0.01298234		0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	PARVIN KUMAR	SARVADAYAL S/O FATA RAM	0.09568220		0.06407139	59.9		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	0.01000371		0.19121694	5.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	PRADIP KUMAR	PURN PRAKASH S/O THAKAR DAS	0.01618577	0.01618577	0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	NAND RAM S/O RAMU	0.01213933	0.01213933	0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	0.02468331		0.09994715	19.8		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	PRITAM CHAND	KARAM CHAND S/O FATE RAM	0.20839184		0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	RAJ KUMARI D/O	TEDDI SINGH S/O FAGNU	0.01910821	0.21019026	0.19108206	9.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	RAJESH KUMAR	SARVADAYAL S/O FATA RAM	0.09568220		0.06407139	59.9		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	0.03682264		0.09994715	26.9		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SABJA CHANDRA	TARA CHAND S/O RILE RAM	0.03877842		0.06575471	37.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SARAN MAT	ALAM CHAND S/O MANGLU	0.01780435		0.02266008	44.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SARD KUMARI D/O	BELI RAM S/O JAISI RAM	0.00305731	0.03363044	0.03057313	9.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SEM SINGH	HARI SINGH S/O MADHU	0.02731349		0.71824372	3.7		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SES RAM	AMAR CHAND S/O CHAINU	0.02225544		0.02832510	44.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SES RAM	RAM S/O SMT. PREMI	0.03439477	0.07261118	0.03821641	47.4		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SHAKUNTALA DEVI D/O	HUKMI RAM S/O HETU	0.02427866		0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR FATI SHAINSHAR KOTI SHAINSHAR	SHRAVAN KUMAR SMT. AMBARI D/O	MOHAR SINGH S/O SABJA CHANDRA KADSHU S/O TULU	0.01000371 0.20535701	0.20122064 0.53160152	0.19121694 0.32624451	5.0 38.6		RENDERED MARGINAL FARMER RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. AMBARI D/O SMT. AMRA DEVI W/O	THAKAR DAS S/O ALAM	0.02023222	0.04271246	0.02248024	47.4		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. AMRA DEVI W/O	HUKMI RAM S/O HETU	0.02023222	0.04271246	0.002248024	100.0		
	FATI SHAINSHAR KOTI SHAINSHAR FATI SHAINSHAR KOTI SHAINSHAR	SMT. BHAGA DASI D/O	PARMANAND S/O DEVI RAM	0.02427866		0.00000000	64.9		RENDERED LANDLESS RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. CHITRU DEVI D/O	AMAR CHAND S/O CHAI NU	0.00130914		0.04097024	44.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. DALPATU WD/O	TEDDI SINGH S/O FAGNU	0.01910821	0.21019026	0.19108206	9.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. DASHMU W D/O	KAUL RAM	0.00231225		0.28671943	0.8		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. DASMU DEVI WD/O	BELI RAM S/O JAISI RAM	0.00231223		0.01910821	9.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. DHARALU DEVI WD/O	PARAM RAM S/O CHET RAM	0.00809289		0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. DUGLI D/O	CHAINU @ CHAITRU S/O CHUHDU	0.00809289	0.04563489	0.03574358	21.7		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. GANESHU W/O	CHET RAM S/O UDE RAM	0.00606967	0.01090292	0.00483325	55.7		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. GUMATI WD/O	MANU S/O BHIKHU	0.01652298		0.02010577	45.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. GUNATI WD/O	TEDDI SINGH S/O FAGNU	0.01910821	0.21019026	0.19108206	9.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. HEERA MANI D/O	KARAM DAS S/O UTTAM RAM	0.00869985	0.00869985	0.00000000	100.0		RENDERED LANDLESS
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. HUMLI WD/O	KAMAL CHAND S/O PARMANAND	0.00231225		0.28671943	0.8		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. KADSHI	KAMAL CHAND S/O PARMANAND	0.00231223		0.23893286	0.8		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. KALU D/O	MANU S/O BHIKHU	0.00354064		0.02010577	15.0		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	0.03682264		0.09994715	26.9		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. LALDASI D/O	KURM DUTT S/O KADSU	0.07452200		0.18158415	29.1		RENDERED MARGINAL FARMER
	FATI SHAINSHAR KOTI SHAINSHAR	SMT. LARJU D/O	PARMANAND	0.00038538		0.04778657	0.8		RENDERED MARGINAL FARMER
1,0	S. W. a		p		0.0 .017 100	0.0 10001	0.0		ETTE III II GITTE IT II III III

S.NO. VILLAGE	PAP_NAME	FATHER_NAME	ACQ-I_HA	TL-I_HA	BAL-I_HA	% ACQ.	% BAL. REMARKS
179 FATI SHAINSHAR KOTI SHAINSHAR	SMT. MAANSAROVARA D/O	SARVADAYAL S/O FATA RAM	0.05011925	0.08368045	0.03356120	59.9	40.1 RENDERED MARGINAL FARMER
180 FATI SHAINSHAR KOTI SHAINSHAR	SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA	0.01000371	0.20122064	0.19121694	5.0	95.0 RENDERED MARGINAL FARMER
181 FATI SHAINSHAR KOTI SHAINSHAR	SMT. PANCHALU D/O	PARMANAND S/O JAGATU	0.00115613	0.14451584	0.14335971	0.8	99.2 RENDERED MARGINAL FARMER
182 FATI SHAINSHAR KOTI SHAINSHAR	SMT. PARVATI D/O	ALAM CHAND S/O MANGLU	0.01780435	0.04046444	0.02266008	44.0	56.0 RENDERED MARGINAL FARMER
183 FATI SHAINSHAR KOTI SHAINSHAR	SMT. RUHNI DEVI WD/O	TARA CHAND S/O RILE RAM	0.01551137	0.04181325	0.02630188	37.1	62.9 RENDERED MARGINAL FARMER
184 FATI SHAINSHAR KOTI SHAINSHAR	SMT. SAMUDRI DEVI W/O	DASANTE SINGH S/O MAAN SINGH	0.01213933	0.01213933	0.00000000	100.0	0.0 RENDERED LANDLESS
185 FATI SHAINSHAR KOTI SHAINSHAR	SMT. SAVITRI DEVI W/O	SHYAM SUNDAR S/O KRISHNA LAL	0.02427866	0.02427866	0.00000000	100.0	0.0 RENDERED LANDLESS
186 FATI SHAINSHAR KOTI SHAINSHAR	SMT. SHANKRI DEVI WD/O	SHANGRU S/O KISHU	0.05462699	0.11532364	0.06069665	47.4	52.6 RENDERED MARGINAL FARMER
187 FATI SHAINSHAR KOTI SHAINSHAR	SMT. SHYAMA DEVI WD/O	BELI RAM S/O JAISI RAM	0.00191082	0.02101903	0.01910821	9.1	
188 FATI SHAINSHAR KOTI SHAINSHAR	SMT. THALU DEVI D/O	(blank)	0.00556386	0.00556386	0.00000000	100.0	0.0 RENDERED LANDLESS
189 FATI SHAINSHAR KOTI SHAINSHAR	SMT. VUDHAVANTU WD/O	SANGAT RAM S/O KALI RAM	0.00606967	0.01647481	0.01040514	36.8	63.2 RENDERED MARGINAL FARMER
190 FATI SHAINSHAR KOTI SHAINSHAR	SUKARMI DEVI D/O	HUKMI RAM S/O HETU	0.02427866	0.02427866	0.00000000	100.0	0.0 RENDERED LANDLESS
191 FATI SHAINSHAR KOTI SHAINSHAR	SURAT RAM	DOTU S/O RAM DAYAL	0.16185774	1.99489666	1.83303891	8.1	91.9 RENDERED SMALL FARMER
192 FATI SHAINSHAR KOTI SHAINSHAR	TEJ RAM	LAJE RAM S/O RAMU	0.06170826	0.31157615	0.24986789	19.8	80.2 RENDERED MARGINAL FARMER
193 FATI SHAINSHAR KOTI SHAINSHAR	TEK RAM	KURM DUTT S/O KADSU	0.07452200	0.25610615	0.18158415	29.1	70.9 RENDERED MARGINAL FARMER
194 FATI SHAINSHAR KOTI SHAINSHAR	THAKAR DAS	ALAM CHAND S/O MANGLU	0.01780435	0.04046444	0.02266008	44.0	
195 FATI SHAINSHAR KOTI SHAINSHAR	THAKAR DAS	DAUT RAM S/O NEEKU	0.00809289	0.00809289	0.00000000	100.0	0.0 RENDERED LANDLESS
196 FATI SHAINSHAR KOTI SHAINSHAR	THAKAR DUTT	ALAM CHAND	0.01416255	0.01416255	0.00000000	100.0	0.0 RENDERED LANDLESS
197 FATI SHAINSHAR KOTI SHAINSHAR	TIRTH RAM	SANGAT RAM S/O KALI RAM	0.39108877	0.69630622	0.30521745	56.2	43.8 RENDERED MARGINAL FARMER
198 FATI SHAINSHAR KOTI SHAINSHAR	UTTAM RAM	LAJE RAM S/O RAMU	0.06170826	0.31157615	0.24986789	19.8	80.2 RENDERED MARGINAL FARMER
199 FATI SHAINSHAR KOTI SHAINSHAR	UTTAM RAM	LALU S/O TAMARE RAM	0.02023222	0.02023222	0.00000000	100.0	0.0 RENDERED LANDLESS
200 FATI SHAINSHAR KOTI SHAINSHAR	VALI RAM	DOLE RAM S/O SANGAT RAM	0.00809289	0.00809289	0.00000000	100.0	0.0 RENDERED LANDLESS
201 FATI SHAINSHAR KOTI SHAINSHAR	VARU	SMT. LALI DEVI WD/O BHIKHU	0.02158103	0.10200410	0.08042306	21.2	
202 FATI SHAINSHAR KOTI SHAINSHAR	VIDHYA BHUSHAN	HUKMI RAM S/O HETU	0.02427866	0.02427866	0.00000000	100.0	0.0 RENDERED LANDLESS
203 FATI SHAINSHAR KOTI SHAINSHAR	VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA	0.01000371	0.20122064	0.19121694	5.0	
204 FATI SHAINSHAR KOTI SHAINSHAR	YADVINDER SINGH	MOHAR SINGH S/O MOHAN SINGH	0.00809289	0.00809289	0.00000000	100.0	0.0 RENDERED LANDLESS
205 SUCHEHAN KOTHI VANOGI	DOT RAM	ANANT RAM S/O CHALE RAM	0.01011611	0.37045190	0.36033580	2.7	97.3 RENDERED MARGINAL FARMER
206 SUCHEHAN KOTHI VANOGI	SMT. HIMDASI WD/O	ANANT RAM S/O CHALE RAM	0.01011611	0.37045190	0.36033580	2.7	97.3 RENDERED MARGINAL FARMER

ANNEXURE-II

VILLAGE-WISE AND KHASRA-WISE DETAILS OF LAND OWNED, ACQUIRED AND BALANCE LEFT WITH PAFS

VILLAGE	PAP NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT	ACQ-I HA	TL-I HA	BAL-I HA
FATI SHAINSHAR KOTI SHAINSHAR	AIN SINGH	BELI RAM S/O JAISI RAM	128 MIN		LAND & HOMESTEAD	0.000323715	0.030896844	0.030573129
FATI SHAINSHAR KOTI SHAINSHAR	AIN SINGH	BELI RAM S/O JAISI RAM	128 MIN		LAND & HOMESTEAD	0.001654546	0.001654546	0.030373123
FATI SHAINSHAR KOTI SHAINSHAR	AIN SINGH	BELI RAM S/O JAISI RAM	128 MIN		LAND & HOMESTEAD	0.001079052	0.001079052	0
FATI SHAINSHAR KOTI SHAINSHAR	AIN SINGH	BELI RAM S/O JAISI RAM Total	120 101111	2102	LAND & HOMESTEAD	0.003057313		0.030573129
FATI GADA PARLI KOTI SHAINSHAR	AJAM KUMAR	UTTAM CHANDRA S/O VIRU	143 MIN	570	LAND & HOMESTEAD	0.000686692		0.044010714
FATI GADA PARLI KOTI SHAINSHAR	AJAM KUMAR	UTTAM CHANDRA S/O VIRU Total	143 MIIN	370	LAND & HOMESTEAD	0.000686692		0.044010714
FATI SHAINSHAR KOTI SHAINSHAR	ARJAN SINGH	JAISI RAM S/O FAGNU	128 MIN	10/13	LAND & HOMESTEAD	0.002023222	0.193105277	0.191082055
FATI SHAINSHAR KOTI SHAINSHAR	ARJAN SINGH	JAISI RAM S/O FAGNU	128 MIN	2729	LAND & HOMESTEAD	0.010340911	0.010340911	0.131002033
FATI SHAINSHAR KOTI SHAINSHAR	ARJAN SINGH	JAISI RAM S/O FAGNU	128 MIN		LAND & HOMESTEAD	0.006744073	0.006744073	0
FATI SHAINSHAR KOTI SHAINSHAR	ARJAN SINGH	JAISI RAM S/O FAGNU Total	120 101111	2102	LAND & HOMESTEAD	0.019108206	0.210190261	0.191082055
FATI SHAINSHAR KOTI SHAINSHAR	BALBIR SINGH	BELI RAM S/O JAISI RAM	128 MIN	10/13	LAND & HOMESTEAD	0.000323715		
FATI SHAINSHAR KOTI SHAINSHAR	BALBIR SINGH	BELI RAM S/O JAISI RAM	128 MIN		LAND & HOMESTEAD	0.000323713	0.001654546	0.030373129
FATI SHAINSHAR KOTI SHAINSHAR	BALBIR SINGH	BELI RAM S/O JAISI RAM	128 MIN		LAND & HOMESTEAD	0.001034340	0.001034340	0
FATI SHAINSHAR KOTI SHAINSHAR	BALBIR SINGH	BELI RAM S/O JAISI RAM Total	120 IVIIIN	2132	LAND & HOMESTEAD	0.003057313		0.030573129
FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O JAISI RAM	FAGNU RAM S/O KALI RAM S/O BALI RAM	777	2728	LAND & HOMESTEAD	0.08092887	4.750524692	4.669595822
FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O JAISI RAM	FAGNU RAM S/O KALI RAM S/O BALI RAM	777	2730	ONLY LAND	0.0465341	0.0465341	4.009393022
FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O JAISI RAM	FAGNU RAM S/O KALI RAM S/O BALI RAM	777	2731	LAND & HOMESTEAD	0.070812762	0.070812762	0
FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O JAISI RAM	FAGNU RAM S/O KALI RAM S/O BALI RAM	777	2733	LAND & HOMESTEAD	0.03439477	0.03439477	0
FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O JAISI RAM	FAGNU RAM S/O KALI RAM S/O BALI RAM Total	111	2100	LAND & HOMESTEAD	0.03439477		4.669595822
FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O MADU	MOTU	777	2728	LAND & HOMESTEAD	0.08092887	4.750524692	4.669595822
FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O MADU	MOTU	777	2730	ONLY LAND	0.0465341	0.0465341	4.009393022
FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O MADU	MOTU	777	2731	LAND & HOMESTEAD	0.070812762	0.070812762	0
FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O MADU	MOTU	777	2733	LAND & HOMESTEAD	0.03439477	0.03439477	0
FATI SHAINSHAR KOTI SHAINSHAR	BANJAR GAIR MAKBUJA C/O MADU	MOTU Total	111	2133	LAND & HOMESTEAD	0.232670502		4.669595822
FATI SHAINSHAR KOTI SHAINSHAR	BANWARI LAL	KANSHI RAM S/O PARIDUTT	735 MIN	2966/3/1	LAND & HOMESTEAD	0.041071402		0.139197657
FATI SHAINSHAR KOTI SHAINSHAR	BANWARI LAL	KANSHI RAM S/O PARIDUTT Total	733 IVIIIN	2900/3/1	LAND & HOMESTEAD	0.041071402		0.139197657
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	ALAM CHAND S/O MANGLU	324	2918	LAND & HOMESTEAD	0.041071402		0.022660084
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	ALAM CHAND S/O MANGLU Total	324	2910	LAND & HOMESTEAD	0.017804351	0.040464435	0.022660084
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	KURM DUTT S/O KADSU	357	1944	LAND & HOMESTEAD	0.017604351		0.022880084
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	KURM DUTT S/O KADSU	359	2721	LAND & HOMESTEAD	0.004720851	0.043836471	0.072835983
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	KURM DUTT S/O KADSU	359	2724	LAND & HOMESTEAD	0.004720651	0.019895014	0.039113621
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	KURM DUTT S/O KADSU	360 MIN		LAND & HOMESTEAD	0.007587082	0.077219631	0.069632549
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	KURM DUTT S/O KADSU	360 MIN	2722	LAND & HOMESTEAD	0.010284711	0.010284711	0.003032343
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	KURM DUTT S/O KADSU	360 MIN		LAND & HOMESTEAD	0.005058054	0.005058054	0
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	KURM DUTT S/O KADSU		2725	LAND & HOMESTEAD	0.003034833	0.003034833	0
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	KURM DUTT S/O KADSU	360 MIN	2726	LAND & HOMESTEAD	0.003034833	0.003034833	0
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	KURM DUTT S/O KADSU	360 MIN		LAND & HOMESTEAD	0.010284711	0.010284711	0
FATI SHAINSHAR KOTI SHAINSHAR	BELI RAM	KURM DUTT S/O KADSU Total	300 IVIIIV	2121	LAND & HOMESTEAD	0.074522001		0.181584153
FATI SHAINSHAR KOTI SHAINSHAR	BHADAR	RAMU S/O VIRU	505	2952	ONLY LAND	0.029673919	0.029673919	0.101304133
FATI SHAINSHAR KOTI SHAINSHAR	BHADAR	RAMU S/O VIRU Total	303	2932	ONLY LAND	0.029673919	0.029673919	0
FATI GADA PARLI KOTI SHAINSHAR	BHADAR SINGH	FATA CHAND S/O JHOKA	273	571	LAND & HOMESTEAD	0.029073919		0.021422348
FATI GADA PARLI KOTI SHAINSHAR	BHADAR SINGH	FATA CHAND S/O JHOKA Total	213	J/ 1	LAND & HOMESTEAD	0.008092887		0.021422348
FATI GADA PARLI KOTI SHAINSHAR	BHAG CHAND	LAGNA CHAND S/O NEEKA RAM @ NEEKU	143 MIN	570	LAND & HOMESTEAD	0.00092687		0.021422348
FATI GADA PARLI KOTI SHAINSHAR	BHAG CHAND	LAGNA CHAND S/O NEEKA RAM @ NEEKU	143 MIN		LAND & HOMESTEAD	0.001236413		0.079242852
FATI GADA PARLI KOTI SHAINSHAR	BHAG CHAND	LAGNA CHAND S/O NEEKA RAM @ NEEKU Total	143 MIIN	575	LAND & HOMESTEAD	0.001000010		0.111277197
FATI GADA PARLI KOTI SHAINSHAR	BHAVE RAM	BHADU	169 MIN	170	LAND & HOMESTEAD	0.040717338		0.181015122
FATI GADA PARLI KOTI SHAINSHAR	BHAVE RAM	BHADU Total	103 WIIIN	473	LAND & HOMESTEAD	0.040717338		0.181015122
FATI SHAINSHAR KOTI SHAINSHAR	BHAVE RAM	MANU S/O BHIKHU	515	2944	ONLY LAND	0.040717338		0.020105766
FATI SHAINSHAR KOTI SHAINSHAR	BHAVE RAM	MANU S/O BHIKHU Total	010	2544	ONLY LAND	0.003540638		0.020105766
FATI SHAINSHAR KOTI SHAINSHAR	BHUMI CHAND	KARAM CHAND S/O FATE RAM	261	2947	ONLY LAND	0.003340636	0.023040404	0.020103700
FATI SHAINSHAR KOTI SHAINSHAR	BHUMI CHAND	KARAM CHAND S/O FATE RAM	261	2947	ONLY LAND	0.099137866	0.024278661	0
FATI SHAINSHAR KOTI SHAINSHAR	BHUMI CHAND	KARAM CHAND S/O FATE RAM	261	2950	ONLY LAND	0.024276661	0.030348326	0
FATI SHAINSHAR KOTI SHAINSHAR	BHUMI CHAND	KARAM CHAND S/O FATE RAM	261	2950	ONLY LAND	0.030346326	0.020232218	0
FATI SHAINSHAR KOTI SHAINSHAR	BHUMI CHAND	KARAM CHAND S/O FATE RAM	261	2953	ONLY LAND	0.020232218	0.020232218	0
FATI SHAINSHAR KOTI SHAINSHAR	BHUMI CHAND	KARAM CHAND S/O FATE RAM Total	201	2304	ONLY LAND	0.03439477	0.208391841	0
FATI OFINOPIAR KUTI SHAINSHAR	DITOWI CHAND	INANAM CHAND 3/O FATE KAM TOTAL	1	l	ONLT LAIND	0.208391841	0.208391841	0

VILLAGE	PAP_NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT			BAL-I_HA
FATI SHAINSHAR KOTI SHAINSHAR	BHUMI SINGH	HAMAM CHAND S/O DILE RAM	336	3103/2922	ONLY LAND	0.214461507	0.214461507	0
FATI SHAINSHAR KOTI SHAINSHAR	BHUMI SINGH	HAMAM CHAND S/O DILE RAM Total			ONLY LAND	0.214461507	0.214461507	0
FATI SHAINSHAR KOTI SHAINSHAR	BHURI SINGH	GOVIND RAM S/O DOLU	247 MIN	2971/3/2/1	ONLY LAND	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	BHURI SINGH	GOVIND RAM S/O DOLU Total			ONLY LAND	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	BOLU RAM	CHALAKI	718 MIN	2969	LAND & HOMESTEAD	0.012139331	0.012139331	0
FATI SHAINSHAR KOTI SHAINSHAR	BOLU RAM	CHALAKI Total			LAND & HOMESTEAD	0.012139331	0.012139331	0
FATI GADA PARLI KOTI SHAINSHAR	BUDH RAM	MEHAR CHAND S/O CHAMRU	28 MIN	572	LAND & HOMESTEAD	0.008092887	0.487596444	0.479503557
FATI GADA PARLI KOTI SHAINSHAR	BUDH RAM	MEHAR CHAND S/O CHAMRU Total			LAND & HOMESTEAD	0.008092887	0.487596444	0.479503557
FATI SHAINSHAR KOTI SHAINSHAR	BUDHU	TULU S/O CHUHDU	515	2944	ONLY LAND	0.044061274	0.294266365	0.250205091
FATI SHAINSHAR KOTI SHAINSHAR	BUDHU	TULU S/O CHUHDU	508 MIN	2946	ONLY LAND	0.025177871	0.144772757	0.119594886
FATI SHAINSHAR KOTI SHAINSHAR	BUDHU	TULU S/O CHUHDU Total			ONLY LAND	0.069239145	0.439039122	0.369799977
FATI SHAINSHAR KOTI SHAINSHAR	CHAINU D/O	AMAR CHAND S/O CHAINU	324	2918	LAND & HOMESTEAD	0.001309143	0.002975326	0.001666183
FATI SHAINSHAR KOTI SHAINSHAR	CHAINU D/O	AMAR CHAND S/O CHAINU Total			LAND & HOMESTEAD	0.001309143	0.002975326	0.001666183
FATI GADA PARLI KOTI SHAINSHAR	CHANDER RAM	SHAUNU S/O MEDU	250	568	ONLY LAND	0.016185774	1.213933056	1.197747282
FATI GADA PARLI KOTI SHAINSHAR	CHANDER RAM	SHAUNU S/O MEDU	250	574/2 MIN	ONLY LAND	0.08092887	0.08092887	0
FATI GADA PARLI KOTI SHAINSHAR	CHANDER RAM	SHAUNU S/O MEDU	251MIN	573	LAND & HOMESTEAD	0.097114644		0.442411158
FATI GADA PARLI KOTI SHAINSHAR	CHANDER RAM	SHAUNU S/O MEDU Total			LAND & HOMESTEAD	0.194229289	1.834387729	1.64015844
FATI GADA PARLI KOTI SHAINSHAR	CHANDRA SAIN	UTTAM CHANDRA S/O VIRU	143 MIN	570	LAND & HOMESTEAD	0.000686692		0.044010714
	CHANDRA SAIN	UTTAM CHANDRA S/O VIRU Total			LAND & HOMESTEAD	0.000686692		0.044010714
FATI SHAINSHAR KOTI SHAINSHAR	CHET RAM	SANGAT RAM S/O KALI RAM	704	3244/2964	ONLY LAND	0.143648745	0.143648745	0
FATI SHAINSHAR KOTI SHAINSHAR	CHET RAM	SANGAT RAM S/O KALI RAM		2971/3/1	ONLY LAND	0.032978515	0.032978515	0
FATI SHAINSHAR KOTI SHAINSHAR	CHET RAM	SANGAT RAM S/O KALI RAM	718 MIN		LAND & HOMESTEAD	0.050580544	0.050580544	0
FATI SHAINSHAR KOTI SHAINSHAR	CHET RAM	SANGAT RAM S/O KALI RAM	718 MIN		LAND & HOMESTEAD	0.18411318	0.499735775	0.315622595
FATI SHAINSHAR KOTI SHAINSHAR	CHET RAM	SANGAT RAM S/O KALI RAM	718 MIN		LAND & HOMESTEAD	0.022255439	0.022255439	0.010022000
FATI SHAINSHAR KOTI SHAINSHAR	CHET RAM	SANGAT RAM S/O KALI RAM	718 MIN		LAND & HOMESTEAD	0.022233439	0.022255459	0
FATI SHAINSHAR KOTI SHAINSHAR	CHET RAM	SANGAT RAM S/O KALI RAM Total	7 10 WIIIN	2310	LAND & HOMESTEAD	0.447738975		0.315622595
FATI SHAINSHAR KOTI SHAINSHAR	CHET RAM	UDE RAM S/O RULADU	702 MIN	22/2/206/	ONLY LAND	0.430946235		0.343160891
FATI SHAINSHAR KOTI SHAINSHAR	CHET RAM	UDE RAM S/O RULADU Total	702 WIIIN	3243/2904	ONLY LAND	0.430946235		0.343160891
FATI GADA PARLI KOTI SHAINSHAR	CHHAPE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU	143 MIN	570	LAND & HOMESTEAD	0.430940233		0.079242852
FATI GADA PARLI KOTI SHAINSHAR	CHHAPE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU	143 MIN		LAND & HOMESTEAD	0.001230413		0.032034345
FATI GADA PARLI KOTI SHAINSHAR	CHHAPE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU Total	143 IVIIIN	373	LAND & HOMESTEAD	0.001080018		0.032034345
FATI SHAINSHAR KOTI SHAINSHAR	CHUNI LAL	PARMANAND	361	2720	LAND & HOMESTEAD	0.002922431		0.047786571
	CHUNI LAL		301	2720				
FATI SHAINSHAR KOTI SHAINSHAR FATI SHAINSHAR KOTI SHAINSHAR	DABE RAM	PARMANAND Total SES RAM S/O TULSI RAM	335 MIN	2020	LAND & HOMESTEAD LAND & HOMESTEAD	0.000385376 0.025290272		0.047786571 0.013656747
FATI SHAINSHAR KOTI SHAINSHAR FATI SHAINSHAR KOTI SHAINSHAR	DABE RAM	SES RAM S/O TULSI RAM Total	335 IVIIIN	2929	LAND & HOMESTEAD	0.025290272		0.013656747
	DALIP KUMAR		143 MIN	F70			0.038947019	
FATI GADA PARLI KOTI SHAINSHAR FATI GADA PARLI KOTI SHAINSHAR	DALIP KUMAR	UTTAM CHANDRA S/O VIRU	143 MIIN	570	LAND & HOMESTEAD	0.000686692 0.000686692		0.044010714
	DARU	UTTAM CHANDRA S/O VIRU Total	4.40 MINI	F70	LAND & HOMESTEAD			
FATI GADA PARLI KOTI SHAINSHAR	_	KADASHU S/O SANGAT RAM	143 MIN		LAND & HOMESTEAD	0.00370924		0.237728557
FATI GADA PARLI KOTI SHAINSHAR	DASHARAT	KADASHU S/O SANGAT RAM	143 MIN	5/5	LAND & HOMESTEAD	0.005058054		0.096103034
FATI GADA PARLI KOTI SHAINSHAR	DASHARAT	KADASHU S/O SANGAT RAM Total	4.44	1010	LAND & HOMESTEAD	0.008767294	0.342598885	0.33383159
FATI SHAINSHAR KOTI SHAINSHAR	DAULAT SINGH	HARI SINGH S/O MADHU	141	1942	LAND & HOMESTEAD	0.027313494		0.718243725
FATI SHAINSHAR KOTI SHAINSHAR	DAULAT SINGH	HARI SINGH S/O MADHU Total	0.47.1.411.1	0074/4	LAND & HOMESTEAD	0.027313494		0.718243725
FATI SHAINSHAR KOTI SHAINSHAR	DELI RAM	KARAM DAS S/O UTTAM RAM	247 MIN	29/1/1	LAND & HOMESTEAD	0.026504205		0.175817971
FATI SHAINSHAR KOTI SHAINSHAR	DELI RAM	KARAM DAS S/O UTTAM RAM Total	4 40		LAND & HOMESTEAD	0.026504205		0.175817971
FATI GADA PARLI KOTI SHAINSHAR	DEV RAM @ DEV RAJ	JAI S/O KHIMU	143 MIN		LAND & HOMESTEAD	0.000989131		0.063394282
FATI GADA PARLI KOTI SHAINSHAR	DEV RAM @ DEV RAJ	JAI S/O KHIMU	143 MIN	575	LAND & HOMESTEAD	0.001348815		0.025627476
FATI GADA PARLI KOTI SHAINSHAR	DEV RAM @ DEV RAJ	JAI S/O KHIMU Total			LAND & HOMESTEAD	0.002337945		0.089021757
FATI SHAINSHAR KOTI SHAINSHAR	DEVI SINGH	GOVIND RAM S/O DOLU	247 MIN	2971/3/2/2	ONLY LAND	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	DEVI SINGH	GOVIND RAM S/O DOLU Total	1		ONLY LAND	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	DEVI SINGH	KAHAN CHAND S/O ANANT RAM	361	2720	LAND & HOMESTEAD	0.002312253		0.286719427
FATI SHAINSHAR KOTI SHAINSHAR	DEVI SINGH	KAHAN CHAND S/O ANANT RAM Total			LAND & HOMESTEAD	0.002312253		0.286719427
FATI SHAINSHAR KOTI SHAINSHAR	DEVLU DEVI D/O	AMAR CHAND S/O CHAINU	324	2918	LAND & HOMESTEAD	0.001309143		0.001666183
FATI SHAINSHAR KOTI SHAINSHAR	DEVLU DEVI D/O	AMAR CHAND S/O CHAINU Total			LAND & HOMESTEAD	0.001309143		0.001666183
FATI GADA PARLI KOTI SHAINSHAR	DEVTHA RISHA VAHATMAM PARIDUT	CHANDE RAM S/O RATI RAM	234 MIN		LAND & HOMESTEAD	0.153764854	1.94229289	1.788528036
FATI SHAINSHAR KOTI SHAINSHAR	DEVTHA RISHA VAHATMAM PARIDUT	CHANDE RAM S/O RATI RAM	688 MIN	2927	LAND & HOMESTEAD	0.052603766		2.533073644
FATI SHAINSHAR KOTI SHAINSHAR	DEVTHA RISHA VAHATMAM PARIDUT	CHANDE RAM S/O RATI RAM Total			LAND & HOMESTEAD	0.20636862		4.321601679
FATI GADA PARLI KOTI SHAINSHAR	DHARM VEER	UTTAM CHANDRA S/O THAKAR DAS	143 MIN	570	LAND & HOMESTEAD	0.000501359	0.0326339	0.032132541
FATI GADA PARLI KOTI SHAINSHAR	DHARM VEER	UTTAM CHANDRA S/O THAKAR DAS Total			LAND & HOMESTEAD	0.000501359		0.032132541
FATI SHAINSHAR KOTI SHAINSHAR	DHUP SINGH	SABJA CHANDRA S/O BHADU	141	1942	LAND & HOMESTEAD	0.009104498	0.248519073	0.239414575

VILLAGE	PAP_NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT	ACQ-I_HA	TL-I_HA	BAL-I_HA
FATI SHAINSHAR KOTI SHAINSHAR	DHUP SINGH	SABJA CHANDRA S/O BHADU	361	2720	LAND & HOMESTEAD	0.002697629	0.337203627	0.334505998
FATI SHAINSHAR KOTI SHAINSHAR	DHUP SINGH	SABJA CHANDRA S/O BHADU	128 MIN	1943	LAND & HOMESTEAD	0.004046444	0.386210554	0.38216411
FATI SHAINSHAR KOTI SHAINSHAR	DHUP SINGH	SABJA CHANDRA S/O BHADU	128 MIN	2729	LAND & HOMESTEAD	0.020681822	0.020681822	0
FATI SHAINSHAR KOTI SHAINSHAR	DHUP SINGH	SABJA CHANDRA S/O BHADU	128 MIN	2732	LAND & HOMESTEAD	0.013488145	0.013488145	0
FATI SHAINSHAR KOTI SHAINSHAR	DHUP SINGH	SABJA CHANDRA S/O BHADU Total			LAND & HOMESTEAD	0.050018538	1.006103221	0.956084683
FATI GADA PARLI KOTI SHAINSHAR	DIKAM CHAND	SAKAT RAM S/O MADU	251MIN	573	LAND & HOMESTEAD	0.006744073	0.03746707	0.030722997
FATI GADA PARLI KOTI SHAINSHAR	DIKAM CHAND	SAKAT RAM S/O MADU Total			LAND & HOMESTEAD	0.006744073	0.03746707	0.030722997
FATI SHAINSHAR KOTI SHAINSHAR	DILE RAM	KADSHU S/O TULU	359	2721	LAND & HOMESTEAD	0.028325105	0.263018829	0.234693724
FATI SHAINSHAR KOTI SHAINSHAR	DILE RAM	KADSHU S/O TULU	359	2724	LAND & HOMESTEAD	0.119370084	0.119370084	0
FATI SHAINSHAR KOTI SHAINSHAR	DILE RAM	KADSHU S/O TULU	361	2720	LAND & HOMESTEAD	0.001156127	0.14451584	0.143359713
FATI SHAINSHAR KOTI SHAINSHAR	DILE RAM	KADSHU S/O TULU	360 MIN	2719	LAND & HOMESTEAD	0.04552249	0.463317783	
FATI SHAINSHAR KOTI SHAINSHAR	DILE RAM	KADSHU S/O TULU	360 MIN	2722	LAND & HOMESTEAD	0.061708264	0.061708264	0
FATI SHAINSHAR KOTI SHAINSHAR	DILE RAM	KADSHU S/O TULU	360 MIN	2723	LAND & HOMESTEAD	0.030348326	0.030348326	0
FATI SHAINSHAR KOTI SHAINSHAR	DILE RAM	KADSHU S/O TULU	360 MIN		LAND & HOMESTEAD	0.018208996	0.018208996	0
FATI SHAINSHAR KOTI SHAINSHAR	DILE RAM	KADSHU S/O TULU	360 MIN	2726	LAND & HOMESTEAD	0.04552249	0.04552249	0
FATI SHAINSHAR KOTI SHAINSHAR	DILE RAM	KADSHU S/O TULU	360 MIN		LAND & HOMESTEAD	0.061708264	0.061708264	0
FATI SHAINSHAR KOTI SHAINSHAR	DILE RAM	KADSHU S/O TULU Total			LAND & HOMESTEAD	0.411870144	1.207718875	0.795848731
FATI SHAINSHAR KOTI SHAINSHAR	DINE RAM	ALAM CHAND S/O MANGLU	324	2918	LAND & HOMESTEAD	0.017804351	0.040464435	0.022660084
FATI SHAINSHAR KOTI SHAINSHAR	DINE RAM	ALAM CHAND S/O MANGLU Total			LAND & HOMESTEAD	0.017804351	0.040464435	0.022660084
FATI GADA PARLI KOTI SHAINSHAR	DOLA SINGH	TOB RAM S/O CHHAPE RAM	273	571	LAND & HOMESTEAD	0.004046444	0.014757618	
FATI GADA PARLI KOTI SHAINSHAR	DOLA SINGH	TOB RAM S/O CHHAPE RAM Total	210	071	LAND & HOMESTEAD	0.004046444	0.014757618	0.010711174
SUCHEHAN KOTHI VANOGI	DOT RAM	ANANT RAM S/O CHALE RAM	204	1802/398	ONLY LAND	0.010116109	0.370451904	
SUCHEHAN KOTHI VANOGI	DOT RAM	ANANT RAM S/O CHALE RAM Total	204	1002/330	ONLY LAND	0.010116109	0.370451904	0.360335795
FATI GADA PARLI KOTI SHAINSHAR	DUNI CHAND	RADHE RAM @ EECHHE RAM S/O TULE RAM	273	571	LAND & HOMESTEAD	0.008092887	0.029515235	0.021422348
FATI GADA PARLI KOTI SHAINSHAR	DUNI CHAND	RADHE RAM @ EECHHE RAM S/O TULE RAM	140 MIN		LAND & HOMESTEAD	0.006092667	0.485573222	0.479503557
FATI GADA PARLI KOTI SHAINSHAR	DUNI CHAND	RADHE RAM @ EECHHE RAM S/O TULE RAM Tota		370	LAND & HOMESTEAD	0.000009003	0.515088457	
FATI SHAINSHAR KOTI SHAINSHAR	DURGA DEVI D/O	BELI RAM S/O JAISI RAM	128 MIN	10/12	LAND & HOMESTEAD	0.000323715	0.030896844	
FATI SHAINSHAR KOTI SHAINSHAR	DURGA DEVI D/O	BELI RAM S/O JAISI RAM	128 MIN		LAND & HOMESTEAD	0.000323713	0.001654546	0.030373129
FATI SHAINSHAR KOTI SHAINSHAR	DURGA DEVI D/O	BELI RAM S/O JAISI RAM	128 MIN		LAND & HOMESTEAD	0.001079052	0.001034540	0
FATI SHAINSHAR KOTI SHAINSHAR	DURGA DEVI D/O	BELI RAM S/O JAISI RAM Total	120 IVIIIN	2132	LAND & HOMESTEAD	0.003057313	0.033630442	0.030573129
FATI SHAINSHAR KOTI SHAINSHAR	DURGA M/O	SARVADAYAL S/O FATA RAM	643/1	2973/5	LAND & HOMESTEAD	0.035608703	0.049258706	
FATI SHAINSHAR KOTI SHAINSHAR	DURGA M/O	SARVADAYAL S/O FATA RAM	643/1	2973/6/1	ONLY LAND	0.014510546	0.034421746	0.0199112
			043/1	29/3/6/1	ONLY LAND		0.083680452	
FATI SHAINSHAR KOTI SHAINSHAR FATI SHAINSHAR KOTI SHAINSHAR	DURGA M/O DURGU	SARVADAYAL S/O FATA RAM Total CHANDA S/O RAMU	505	2952	ONLY LAND	0.050119249 0.029673919	0.029673919	0.033561203
FATI SHAINSHAR KOTI SHAINSHAR FATI SHAINSHAR KOTI SHAINSHAR	DURGU	CHANDA S/O RAMU Total	505	2952	ONLY LAND	0.029673919	0.029673919	0
	DURGU	RAMU	515	2944				0.080423065
FATI SHAINSHAR KOTI SHAINSHAR	DURGU	RAMU Total	515	2944	ONLY LAND ONLY LAND	0.014162552 0.014162552	0.094585617	0.080423065
FATI SHAINSHAR KOTI SHAINSHAR			4.40 MINI	F70	-			
FATI GADA PARLI KOTI SHAINSHAR	DYAN CHAND	JAI S/O KHIMU	143 MIN		LAND & HOMESTEAD	0.000989131	0.064383412	0.063394282
FATI GADA PARLI KOTI SHAINSHAR	DYAN CHAND	JAI S/O KHIMU	143 MIN	5/5	LAND & HOMESTEAD	0.001348815	0.02697629	0.025627476
FATI GADA PARLI KOTI SHAINSHAR	DYAN CHAND	JAI S/O KHIMU Total	OOF MAIN	0000	LAND & HOMESTEAD	0.002337945	0.091359703	0.089021757
FATI SHAINSHAR KOTI SHAINSHAR	ELU RAM	PARAS RAM S/O MOTI RAM	335 MIN	2929	LAND & HOMESTEAD	0.050580544	0.077894038	0.027313494
FATI SHAINSHAR KOTI SHAINSHAR	ELU RAM	PARAS RAM S/O MOTI RAM Total	40.1411		LAND & HOMESTEAD	0.050580544	0.077894038	0.027313494
	FAGNU	TULA RAM S/O PRIMU	40 MIN	574/1	LAND & HOMESTEAD	0.022255439	1.618577408	1.596321969
	FAGNU	TULA RAM S/O PRIMU Total	070	F74	LAND & HOMESTEAD	0.022255439	1.618577408	1.596321969
	FATA CHAND	JHOKA S/O ANANT RAM	273	571	LAND & HOMESTEAD	0.016185774	0.05903047	0.042844696
FATI GADA PARLI KOTI SHAINSHAR		JHOKA S/O ANANT RAM Total			LAND & HOMESTEAD	0.016185774	0.05903047	0.042844696
FATI SHAINSHAR KOTI SHAINSHAR	FATA CHAND	JAISI RAM S/O FAGNU	128 MIN		LAND & HOMESTEAD	0.002023222	0.193105277	0.191082055
	FATA CHAND	JAISI RAM S/O FAGNU	128 MIN		LAND & HOMESTEAD	0.010340911	0.010340911	0
	FATA CHAND	JAISI RAM S/O FAGNU	128 MIN	2732	LAND & HOMESTEAD	0.006744073	0.006744073	0
FATI SHAINSHAR KOTI SHAINSHAR	FATA CHAND	JAISI RAM S/O FAGNU Total			LAND & HOMESTEAD	0.019108206		
FATI SHAINSHAR KOTI SHAINSHAR	FATA CHAND	TARA CHAND S/O RILE RAM	346 MIN	2919	LAND & HOMESTEAD	0.038778417	0.104533124	
FATI SHAINSHAR KOTI SHAINSHAR	FATA CHAND	TARA CHAND S/O RILE RAM Total			LAND & HOMESTEAD	0.038778417	0.104533124	0.065754707
	FATA RAM	NAGENU RAM S/O THOLU RAM	718 MIN	2969	LAND & HOMESTEAD	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	FATA RAM	NAGENU RAM S/O THOLU RAM Total			LAND & HOMESTEAD	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	FULA D/O	NAND RAM S/O RAMU	332	2924	ONLY LAND	0.003237155	0.003237155	0
FATI SHAINSHAR KOTI SHAINSHAR	FULA D/O	NAND RAM S/O RAMU	332	2925	ONLY LAND	0.001618577	0.001618577	0
FATI SHAINSHAR KOTI SHAINSHAR	FULA D/O	NAND RAM S/O RAMU	332	2926	ONLY LAND	0.007283598	0.007283598	0
FATI SHAINSHAR KOTI SHAINSHAR	FULA D/O	NAND RAM S/O RAMU Total			ONLY LAND	0.012139331	0.012139331	0
	FULA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2917	LAND & HOMESTEAD	0.010116109		0.099947155

VILLAGE	PAP_NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT	ACQ-I_HA	TL-I_HA E	BAL-I_HA
FATI SHAINSHAR KOTI SHAINSHAR	FULA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2920	LAND & HOMESTEAD	0.003237155	0.003237155	0
FATI SHAINSHAR KOTI SHAINSHAR	FULA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2932	LAND & HOMESTEAD	0.003641799	0.003641799	0
FATI SHAINSHAR KOTI SHAINSHAR	FULA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2933	LAND & HOMESTEAD	0.001213933	0.001213933	0
FATI SHAINSHAR KOTI SHAINSHAR	FULA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2934	LAND & HOMESTEAD	0.00647431	0.00647431	0
FATI SHAINSHAR KOTI SHAINSHAR	FULA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU To	tal		LAND & HOMESTEAD	0.024683305	0.12463046	0.099947155
FATI GADA PARLI KOTI SHAINSHAR	GAVE RAM	HARFI RAM S/O PARAS RAM	169 MIN	479	LAND & HOMESTEAD	0.015511367	0.084469508	0.068958142
FATI GADA PARLI KOTI SHAINSHAR	GAVE RAM	HARFI RAM S/O PARAS RAM	251MIN	573	LAND & HOMESTEAD	0.006744073	0.03746707	0.030722997
FATI GADA PARLI KOTI SHAINSHAR	GAVE RAM	HARFI RAM S/O PARAS RAM Total			LAND & HOMESTEAD	0.022255439	0.121936578	0.099681139
FATI GADA PARLI KOTI SHAINSHAR	GEHAR SINGH	JAI S/O KHIMU	143 MIN	570	LAND & HOMESTEAD	0.000989131	0.064383412	0.063394282
FATI GADA PARLI KOTI SHAINSHAR	GEHAR SINGH	JAI S/O KHIMU Total			LAND & HOMESTEAD	0.000989131	0.064383412	0.063394282
FATI GADA PARLI KOTI SHAINSHAR	GELU	NEEKU S/O TULLU	251MIN	573	LAND & HOMESTEAD	0.006744073	0.03746707	0.030722997
FATI GADA PARLI KOTI SHAINSHAR	GELU	NEEKU S/O TULLU Total			LAND & HOMESTEAD	0.006744073	0.03746707	0.030722997
FATI SHAINSHAR KOTI SHAINSHAR	GULAB CHAND	AMAR CHAND S/O CHAINU	324	2918	LAND & HOMESTEAD	0.018546199	0.042150453	0.023604254
FATI SHAINSHAR KOTI SHAINSHAR	GULAB CHAND	AMAR CHAND S/O CHAINU Total			LAND & HOMESTEAD	0.018546199	0.042150453	0.023604254
FATI SHAINSHAR KOTI SHAINSHAR	GURDHYAN SINGH	JHAVE RAM S/O MADU	141	1942	LAND & HOMESTEAD	0.027313494		0.718243725
FATI SHAINSHAR KOTI SHAINSHAR	GURDHYAN SINGH	JHAVE RAM S/O MADU	361	2720	LAND & HOMESTEAD	0.008092887		1.003517993
FATI SHAINSHAR KOTI SHAINSHAR	GURDHYAN SINGH	JHAVE RAM S/O MADU	128 MIN		LAND & HOMESTEAD	0.012139331		1.146492331
FATI SHAINSHAR KOTI SHAINSHAR	GURDHYAN SINGH	JHAVE RAM S/O MADU	128 MIN		LAND & HOMESTEAD	0.062045467	0.062045467	0
	GURDHYAN SINGH	JHAVE RAM S/O MADU	128 MIN		LAND & HOMESTEAD	0.040464435	0.040464435	0
FATI SHAINSHAR KOTI SHAINSHAR	GURDHYAN SINGH	JHAVE RAM S/O MADU Total	.20 141114	02	LAND & HOMESTEAD	0.150055614		2.868254048
FATI GADA PARLI KOTI SHAINSHAR	GYANU	PARI S/O HARFU	40 MIN	574/1	LAND & HOMESTEAD	0.00741848		0.532107323
FATI GADA PARLI KOTI SHAINSHAR	GYANU	PARI S/O HARFU Total	TO WITH	37-7/1	LAND & HOMESTEAD	0.00741848		0.532107323
FATI GADA PARLI KOTI SHAINSHAR	HARAJ MAL	UTTAM CHANDRA S/O THAKAR DAS	143 MIN	570	LAND & HOMESTEAD	0.000501359		0.032132541
FATI GADA PARLI KOTI SHAINSHAR	HARAJ MAL	UTTAM CHANDRA S/O THAKAR DAS Total	145 MIIN	570	LAND & HOMESTEAD	0.000501359		0.032132541
FATI SHAINSHAR KOTI SHAINSHAR	HARFI RAM	PARAS S/O MAN CHAND	357	1944	LAND & HOMESTEAD	0.000301339	0.236716946	0.21850795
FATI SHAINSHAR KOTI SHAINSHAR	HARFI RAM	PARAS S/O MAN CHAND	360 MIN		LAND & HOMESTEAD	0.091044979		0.835590587
FATI SHAINSHAR KOTI SHAINSHAR	HARFI RAM	PARAS S/O MAN CHAND	360 MIN		LAND & HOMESTEAD	0.123416527	0.123416527	0.633390367
FATI SHAINSHAR KOTI SHAINSHAR	HARFI RAM	PARAS S/O MAN CHAND	360 MIN	2723		0.060696653	0.060696653	0
FATI SHAINSHAR KOTI SHAINSHAR	HARFI RAM		360 MIN		LAND & HOMESTEAD	0.036417992		0
FATI SHAINSHAR KOTI SHAINSHAR	HARFI RAM	PARAS S/O MAN CHAND PARAS S/O MAN CHAND			LAND & HOMESTEAD LAND & HOMESTEAD	0.036417992	0.036417992 0.091044979	0
	HARFI RAM	PARAS S/O MAN CHAND	360 MIN			0.091044979	0.123416527	0
FATI SHAINSHAR KOTI SHAINSHAR			300 IVIIIN	2121	LAND & HOMESTEAD			4.054000527
FATI SHAINSHAR KOTI SHAINSHAR	HARFI RAM	PARAS S/O MAN CHAND Total	32 MIN	F77	LAND & HOMESTEAD	0.544246653	1.59834519	
FATI GADA PARLI KOTI SHAINSHAR	HARI CHANDRA	KADSHU @ KADSHI RAM S/O SANGAT RAM	_	577	LAND & HOMESTEAD	0.016995063		0.144862678
FATI GADA PARLI KOTI SHAINSHAR	HARI CHANDRA	KADSHU @ KADSHI RAM S/O SANGAT RAM	32 MIN	581	LAND & HOMESTEAD	0.006878954		0.114514352
FATI GADA PARLI KOTI SHAINSHAR	HARI CHANDRA	KADSHU @ KADSHI RAM S/O SANGAT RAM	32 MIN	582	ONLY LAND	0.001213933		0.108444686
FATI GADA PARLI KOTI SHAINSHAR	HARI CHANDRA	KADSHU @ KADSHI RAM S/O SANGAT RAM	32 MIN	583	ONLY LAND	0.003237155	0.003237155	0
FATI GADA PARLI KOTI SHAINSHAR	HARI CHANDRA	KADSHU @ KADSHI RAM S/O SANGAT RAM Total	4 40 1 411		ONLY LAND	0.028325105	0.396146821	
FATI GADA PARLI KOTI SHAINSHAR	HET RAM	UTTAM CHANDRA S/O VIRU	143 MIN	570	LAND & HOMESTEAD	0.000686692		0.044010714
FATI GADA PARLI KOTI SHAINSHAR	HET RAM	UTTAM CHANDRA S/O VIRU Total			LAND & HOMESTEAD	0.000686692		0.044010714
FATI SHAINSHAR KOTI SHAINSHAR	HETI D/O	KAMAL CHAND S/O PARMANAND	361	2720	LAND & HOMESTEAD	0.001926878		0.238932855
FATI SHAINSHAR KOTI SHAINSHAR	HETI D/O	KAMAL CHAND S/O PARMANAND Total			LAND & HOMESTEAD	0.001926878		0.238932855
FATI SHAINSHAR KOTI SHAINSHAR	HIRA SINGH	SABJA CHANDRA S/O BHADU	141	1942	LAND & HOMESTEAD	0.009104498		0.239414575
FATI SHAINSHAR KOTI SHAINSHAR	HIRA SINGH	SABJA CHANDRA S/O BHADU	361	2720	LAND & HOMESTEAD	0.002697629		0.334505998
FATI SHAINSHAR KOTI SHAINSHAR	HIRA SINGH	SABJA CHANDRA S/O BHADU	128 MIN		LAND & HOMESTEAD	0.004046444	0.386210554	0.38216411
FATI SHAINSHAR KOTI SHAINSHAR	HIRA SINGH	SABJA CHANDRA S/O BHADU	128 MIN	2729	LAND & HOMESTEAD	0.020681822	0.020681822	0
FATI SHAINSHAR KOTI SHAINSHAR	HIRA SINGH	SABJA CHANDRA S/O BHADU	128 MIN	2732	LAND & HOMESTEAD	0.013488145	0.013488145	0
FATI SHAINSHAR KOTI SHAINSHAR	HIRA SINGH	SABJA CHANDRA S/O BHADU Total			LAND & HOMESTEAD	0.050018538		0.956084683
FATI SHAINSHAR KOTI SHAINSHAR	HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2917	LAND & HOMESTEAD	0.010116109		0.099947155
FATI SHAINSHAR KOTI SHAINSHAR	HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2920	LAND & HOMESTEAD	0.003237155	0.003237155	0
FATI SHAINSHAR KOTI SHAINSHAR	HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2932	LAND & HOMESTEAD	0.003641799	0.003641799	0
FATI SHAINSHAR KOTI SHAINSHAR	HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2933	LAND & HOMESTEAD	0.001213933	0.001213933	0
FATI SHAINSHAR KOTI SHAINSHAR	HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2934	LAND & HOMESTEAD	0.00647431	0.00647431	0
FATI SHAINSHAR KOTI SHAINSHAR	HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	332	2924	ONLY LAND	0.003237155	0.003237155	0
FATI SHAINSHAR KOTI SHAINSHAR	HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	332	2925	ONLY LAND	0.001618577	0.001618577	0
FATI SHAINSHAR KOTI SHAINSHAR	HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	332	2926	ONLY LAND	0.007283598	0.007283598	0
FATI SHAINSHAR KOTI SHAINSHAR	HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU To	tal		ONLY LAND	0.036822636	0.136769791	0.099947155
FATI SHAINSHAR KOTI SHAINSHAR	HUMA D/O	KAMAL CHAND S/O PARMANAND	361	2720	LAND & HOMESTEAD	0.001926878	0.240859733	0.238932855
FATI SHAINSHAR KOTI SHAINSHAR	HUMA D/O	KAMAL CHAND S/O PARMANAND Total			LAND & HOMESTEAD	0.001926878		0.238932855
FATI SHAINSHAR KOTI SHAINSHAR	INDIRA D/O	SARVADAYAL S/O FATA RAM	643/1	2973/5	LAND & HOMESTEAD	0.035608703	0.049258706	

VILLAGE	PAP_NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT	ACQ-I_HA	TL-I_HA	BAL-I_HA
FATI SHAINSHAR KOTI SHAINSHAR	INDIRA D/O	SARVADAYAL S/O FATA RAM	643/1	2973/6/1	ONLY LAND	0.014510546	0.034421746	0.0199112
FATI SHAINSHAR KOTI SHAINSHAR	INDIRA D/O	SARVADAYAL S/O FATA RAM Total			ONLY LAND	0.050119249	0.083680452	0.033561203
FATI GADA PARLI KOTI SHAINSHAR	ISHAR DAS	ANU S/O KADASHU	143 MIN	570	LAND & HOMESTEAD	0.001236413	0.080479266	0.079242852
FATI GADA PARLI KOTI SHAINSHAR	ISHAR DAS	ANU S/O KADASHU	143 MIN	575	LAND & HOMESTEAD	0.001686018	0.033720363	0.032034345
FATI GADA PARLI KOTI SHAINSHAR	ISHAR DAS	ANU S/O KADASHU Total			LAND & HOMESTEAD	0.002922431	0.114199628	0.111277197
FATI SHAINSHAR KOTI SHAINSHAR	JHADE RAM	(blank)	505	2952	ONLY LAND	0.00556386	0.00556386	0
FATI SHAINSHAR KOTI SHAINSHAR	JHADE RAM	(blank) Total			ONLY LAND	0.00556386	0.00556386	0
FATI GADA PARLI KOTI SHAINSHAR	KAHAN CHAND	SALAG RAM	169 MIN	479	LAND & HOMESTEAD	0.015511367	0.084469508	0.068958142
FATI GADA PARLI KOTI SHAINSHAR	KAHAN CHAND	SALAG RAM Total			LAND & HOMESTEAD	0.015511367	0.084469508	0.068958142
FATI GADA PARLI KOTI SHAINSHAR	KHELI RAM	JEET RAM S/O SHAUJU	251MIN	573	LAND & HOMESTEAD	0.008092887	0.044960484	0.036867597
FATI GADA PARLI KOTI SHAINSHAR	KHELI RAM	JEET RAM S/O SHAUJU Total			LAND & HOMESTEAD	0.008092887	0.044960484	0.036867597
FATI SHAINSHAR KOTI SHAINSHAR	KHIM DEV	MANI RAM S/O DOTU	643/1	2973/3	ONLY LAND	0.093068201	1.124911299	1.031843098
FATI SHAINSHAR KOTI SHAINSHAR	KHIM DEV	MANI RAM S/O DOTU Total			ONLY LAND	0.093068201	1.124911299	1.031843098
FATI SHAINSHAR KOTI SHAINSHAR	KHIMI RAM	DEVNU S/O JODHU	515	2944	ONLY LAND	0.006294468	0.042038052	0.035743584
FATI SHAINSHAR KOTI SHAINSHAR	KHIMI RAM	DEVNU S/O JODHU	508 MIN	2946	ONLY LAND	0.003596839	0.003596839	0
FATI SHAINSHAR KOTI SHAINSHAR	KHIMI RAM	DEVNU S/O JODHU Total			ONLY LAND	0.009891306	0.045634891	0.035743584
FATI GADA PARLI KOTI SHAINSHAR	KHUB RAM	KHIMU S/O SANGAT RAM	143 MIN	570	LAND & HOMESTEAD	0.004945653	0.321917062	0.316971409
FATI GADA PARLI KOTI SHAINSHAR	KHUB RAM	KHIMU S/O SANGAT RAM	143 MIN		LAND & HOMESTEAD	0.006744073	0.134881451	0.128137378
FATI GADA PARLI KOTI SHAINSHAR	KHUB RAM	KHIMU S/O SANGAT RAM Total			LAND & HOMESTEAD	0.011689726	0.456798513	0.445108787
FATI SHAINSHAR KOTI SHAINSHAR	KHUB RAM	PARAS RAM S/O MOTI RAM	335 MIN	2929	LAND & HOMESTEAD	0.050580544	0.077894038	0.027313494
FATI SHAINSHAR KOTI SHAINSHAR	KHUB RAM	PARAS RAM S/O MOTI RAM Total			LAND & HOMESTEAD	0.050580544	0.077894038	0.027313494
FATI SHAINSHAR KOTI SHAINSHAR	KISHORI LAL	MOTI RAM S/O BHALI	715 MIN	2923	ONLY LAND	0.008092887	0.056650209	
FATI SHAINSHAR KOTI SHAINSHAR	KISHORI LAL	MOTI RAM S/O BHALI Total			ONLY LAND	0.008092887		0.048557322
FATI SHAINSHAR KOTI SHAINSHAR	KRISHNA KUMAR @ KISHORI LAL	KANSHI RAM S/O PARIDUTT	735 MIN	2966/4/1	LAND & HOMESTEAD	0.161857741	0.133532636	-0.0283251
FATI SHAINSHAR KOTI SHAINSHAR	KRISHNA KUMAR @ KISHORI LAL	KANSHI RAM S/O PARIDUTT Total		2000/ 1/ 1	LAND & HOMESTEAD	0.161857741	0.133532636	-0.0283251
FATI GADA PARLI KOTI SHAINSHAR	LAL CHAND	KHIMU S/O SANGAT RAM	143 MIN	570	LAND & HOMESTEAD	0.004945653	0.321917062	
FATI GADA PARLI KOTI SHAINSHAR	LAL CHAND	KHIMU S/O SANGAT RAM	143 MIN		LAND & HOMESTEAD	0.006744073	0.134881451	0.128137378
FATI GADA PARLI KOTI SHAINSHAR	LAL CHAND	KHIMU S/O SANGAT RAM Total	1-10 101111	070	LAND & HOMESTEAD	0.011689726	0.456798513	0.445108787
FATI GADA PARLI KOTI SHAINSHAR	LAL SINGH	DAULAT RAM S/O CHET RAM	273	571	LAND & HOMESTEAD	0.004046444		0.010711174
FATI GADA PARLI KOTI SHAINSHAR	LAL SINGH	DAULAT RAM S/O CHET RAM Total	210	071	LAND & HOMESTEAD	0.004046444	0.014757618	0.010711174
FATI SHAINSHAR KOTI SHAINSHAR	MAAN SINGH	RALU RAM S/O PARIDUTT	247 MIN	2971/3/2	ONLY LAND	0.004046444	0.004046444	0.010711174
FATI SHAINSHAR KOTI SHAINSHAR	MAAN SINGH	RALU RAM S/O PARIDUTT Total		201 17072	ONLY LAND	0.004046444	0.004046444	0
FATI SHAINSHAR KOTI SHAINSHAR	MADAN LAL	KANSHI RAM S/O PARIDUTT	735 MIN	2966/2/1	ONLY LAND	0.075263849		0.157002009
FATI SHAINSHAR KOTI SHAINSHAR	MADAN LAL	KANSHI RAM S/O PARIDUTT Total	100	2000/2/	ONLY LAND	0.075263849	0.232265858	0.157002009
FATI GADA PARLI KOTI SHAINSHAR	MAHINDRA SINGH	SMT. ISHRU D/O KUNDAL	32 MIN	577	LAND & HOMESTEAD	0.005665021	0.05395258	0.048287559
FATI GADA PARLI KOTI SHAINSHAR	MAHINDRA SINGH	SMT. ISHRU D/O KUNDAL	32 MIN	581	LAND & HOMESTEAD	0.002292985		0.038171451
FATI GADA PARLI KOTI SHAINSHAR	MAHINDRA SINGH	SMT. ISHRU D/O KUNDAL	32 MIN	582	ONLY LAND	0.000404644	0.036552873	0.036148229
FATI GADA PARLI KOTI SHAINSHAR	MAHINDRA SINGH	SMT. ISHRU D/O KUNDAL	32 MIN	583	ONLY LAND	0.001079052	0.001079052	0.000110220
FATI GADA PARLI KOTI SHAINSHAR	MAHINDRA SINGH	SMT. ISHRU D/O KUNDAL Total	02 111111	000	ONLY LAND	0.009441702		0.122607239
FATI SHAINSHAR KOTI SHAINSHAR	MAN CHANDRA	DHANI RAM S/O KATU	345	2913	ONLY LAND	0.198275732	0.198275732	0.122007255
FATI SHAINSHAR KOTI SHAINSHAR	MAN CHANDRA	DHANI RAM S/O KATU	345		LAND & HOMESTEAD	0.210415063	1.727831383	1.51741632
FATI SHAINSHAR KOTI SHAINSHAR	MAN CHANDRA	DHANI RAM S/O KATU	345		LAND & HOMESTEAD	0.210415063	0.210415063	0
FATI SHAINSHAR KOTI SHAINSHAR	MAN CHANDRA	DHANI RAM S/O KATU	345	3102/2922	ONLY LAND	0.210415063	0.210415063	0
FATI SHAINSHAR KOTI SHAINSHAR	MAN CHANDRA	DHANI RAM S/O KATU Total	0		ONLY LAND	0.829520922	2.346937242	1.51741632
FATI GADA PARLI KOTI SHAINSHAR	MANI RAM	PARI S/O HARFU	28 MIN	572	LAND & HOMESTEAD	0.007193677	0.433419061	0.426225384
FATI GADA PARLI KOTI SHAINSHAR	MANI RAM	PARI S/O HARFU		574/1	LAND & HOMESTEAD	0.00741848	0.539525803	0.532107323
FATI GADA PARLI KOTI SHAINSHAR	MANI RAM	PARI S/O HARFU Total	12		LAND & HOMESTEAD	0.014612157	0.972944864	0.958332707
FATI GADA PARLI KOTI SHAINSHAR	MEHAR SINGH	JAI S/O KHIMU	143 MIN	575	LAND & HOMESTEAD	0.001348815	0.02697629	
FATI GADA PARLI KOTI SHAINSHAR	MEHAR SINGH	JAI S/O KHIMU Total			LAND & HOMESTEAD	0.001348815	0.02697629	0.025627476
FATI GADA PARLI KOTI SHAINSHAR	MOHAN SINGH	ANUP S/O SMAAM	169 MIN	479	LAND & HOMESTEAD	0.011633525	0.063352131	0.051718606
FATI GADA PARLI KOTI SHAINSHAR	MOHAN SINGH	ANUP S/O SMAAM Total			LAND & HOMESTEAD	0.011633525	0.063352131	0.051718606
FATI GADA PARLI KOTI SHAINSHAR	MOHAR SINGH	RAM SARU S/O DILE RAM	273	571	LAND & HOMESTEAD	0.008092887	0.029515235	0.021422348
FATI GADA PARLI KOTI SHAINSHAR	MOHAR SINGH	RAM SARU S/O DILE RAM Total	2.0	011	LAND & HOMESTEAD	0.008092887	0.029515235	
FATI GADA PARLI KOTI SHAINSHAR	MOHAR SINGH	SMT. ISHRU D/O KUNDAL	32 MIN	577	LAND & HOMESTEAD	0.005665021	0.05395258	0.048287559
FATI GADA PARLI KOTI SHAINSHAR	MOHAR SINGH	SMT. ISHRU D/O KUNDAL	32 MIN	581	LAND & HOMESTEAD	0.003003021	0.040464435	
FATI GADA PARLI KOTI SHAINSHAR	MOHAR SINGH	SMT. ISHRU D/O KUNDAL	32 MIN	582	ONLY LAND	0.0002292903	0.036552873	
FATI GADA PARLI KOTI SHAINSHAR	MOHAR SINGH	SMT. ISHRU D/O KUNDAL	32 MIN	583	ONLY LAND	0.001079052	0.001079052	0.000140229
FATI GADA PARLI KOTI SHAINSHAR	MOHAR SINGH	SMT. ISHRU D/O KUNDAL Total	OZ IVIIIN	505	ONLY LAND	0.001079032		0.122607239
FATI SHAINSHAR KOTI SHAINSHAR	MOHAR SINGH	BHADARU RAM S/O RAM	505	2952	ONLY LAND	0.009441702	0.074184798	0.122001200
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VILLAGE	PAP_NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT		ΓL-I_HA BAL-I	_HA
FATI SHAINSHAR KOTI SHAINSHAR	MOHAR SINGH	BHADARU RAM S/O RAM Total			ONLY LAND	0.074184798	0.074184798	0
FATI SHAINSHAR KOTI SHAINSHAR	MOHAR SINGH	JEETU S/O FARETAM	333	2921	LAND & HOMESTEAD	0.28729749	0.28729749	0
FATI SHAINSHAR KOTI SHAINSHAR	MOHAR SINGH	JEETU S/O FARETAM Total			LAND & HOMESTEAD	0.28729749	0.28729749	0
FATI GADA PARLI KOTI SHAINSHAR	MOTI RAM	SALAG RAM	169 MIN	479	LAND & HOMESTEAD	0.015511367	0.084469508 0.068	3958142
FATI GADA PARLI KOTI SHAINSHAR	MOTI RAM	SALAG RAM Total			LAND & HOMESTEAD	0.015511367	0.084469508 0.068	3958142
FATI SHAINSHAR KOTI SHAINSHAR	MOTU	DEVNU S/O RAMU	515	2944	ONLY LAND	0.014162552	0.094585617 0.080	0423065
FATI SHAINSHAR KOTI SHAINSHAR	MOTU	DEVNU S/O RAMU Total			ONLY LAND	0.014162552	0.094585617 0.080	0423065
FATI SHAINSHAR KOTI SHAINSHAR	NARPAT	MAN DAS S/O PARSU	324	2918	LAND & HOMESTEAD	0.044510879	0.101161088 0.056	6650209
FATI SHAINSHAR KOTI SHAINSHAR	NARPAT	MAN DAS S/O PARSU Total			LAND & HOMESTEAD	0.044510879	0.101161088 0.056	6650209
FATI GADA PARLI KOTI SHAINSHAR	NARU RAM	TEJ RAM S/O BHADU	251MIN	573	LAND & HOMESTEAD	0.006744073	0.03746707 0.030	0722997
FATI GADA PARLI KOTI SHAINSHAR	NARU RAM	TEJ RAM S/O BHADU Total			LAND & HOMESTEAD	0.006744073	0.03746707 0.030	0722997
FATI SHAINSHAR KOTI SHAINSHAR	NEELMA DEVI D/O	BELI RAM S/O JAISI RAM	128 MIN	1943	LAND & HOMESTEAD	0.000323715	0.030896844 0.030	0573129
FATI SHAINSHAR KOTI SHAINSHAR	NEELMA DEVI D/O	BELI RAM S/O JAISI RAM	128 MIN	2729	LAND & HOMESTEAD	0.001654546	0.001654546	0
FATI SHAINSHAR KOTI SHAINSHAR	NEELMA DEVI D/O	BELI RAM S/O JAISI RAM	128 MIN	2732	LAND & HOMESTEAD	0.001079052	0.001079052	0
FATI SHAINSHAR KOTI SHAINSHAR	NEELMA DEVI D/O	BELI RAM S/O JAISI RAM Total			LAND & HOMESTEAD	0.003057313		0573129
FATI GADA PARLI KOTI SHAINSHAR	NIDHI SINGH	RAJU S/O DHANI RAM	169 MIN	479	LAND & HOMESTEAD	0.011633525		1718606
FATI GADA PARLI KOTI SHAINSHAR	NIDHI SINGH	RAJU S/O DHANI RAM Total			LAND & HOMESTEAD	0.011633525		1718606
FATI SHAINSHAR KOTI SHAINSHAR	NIRENDRA KUMAR	MOHAR SINGH S/O SABJA CHANDRA	141	1942	LAND & HOMESTEAD	0.0018209		7882915
FATI SHAINSHAR KOTI SHAINSHAR	NIRENDRA KUMAR	MOHAR SINGH S/O SABJA CHANDRA	361	2720	LAND & HOMESTEAD	0.000539526		0669012
	NIRENDRA KUMAR	MOHAR SINGH S/O SABJA CHANDRA	128 MIN		LAND & HOMESTEAD	0.000809289		6432822
FATI SHAINSHAR KOTI SHAINSHAR	NIRENDRA KUMAR	MOHAR SINGH S/O SABJA CHANDRA	128 MIN		LAND & HOMESTEAD	0.004136364	0.004136364	0
	NIRENDRA KUMAR	MOHAR SINGH S/O SABJA CHANDRA	128 MIN		LAND & HOMESTEAD	0.002697629	0.002697629	0
FATI SHAINSHAR KOTI SHAINSHAR	NIRENDRA KUMAR	MOHAR SINGH S/O SABJA CHANDRA Total	120 WIIIV	2102	LAND & HOMESTEAD	0.010003708	0.201220644 0.191	1216037
FATI GADA PARLI KOTI SHAINSHAR	NOKH SINGH	CHHAPE RAM S/O RAM LAL	251MIN	573	LAND & HOMESTEAD	0.006744073		0722997
FATI GADA PARLI KOTI SHAINSHAR	NOKH SINGH	CHHAPE RAM S/O RAM LAL Total	ZJIIVIIIN	575	LAND & HOMESTEAD	0.006744073		0722997
FATI SHAINSHAR KOTI SHAINSHAR	OM PRAKASH	MANI RAM S/O DOTU	643/1	2973/4	LAND & HOMESTEAD	0.093068201		0914227
FATI SHAINSHAR KOTI SHAINSHAR	OM PRAKASH	MANI RAM S/O DOTU Total	043/1	2913/4	LAND & HOMESTEAD	0.093068201		0914227
FATI SHAINSHAR KOTI SHAINSHAR	PAINU	PARMANAND	361	2720	LAND & HOMESTEAD	0.000385376		7786571
FATI SHAINSHAR KOTI SHAINSHAR	PAINU	PARMANAND Total	301	2120	LAND & HOMESTEAD	0.000385376		7786571
FATI SHAINSHAR KOTI SHAINSHAR	PARAS RAM	MANU S/O BHIKHU	515	2944	ONLY LAND	0.003540638		0105766
FATI SHAINSHAR KOTI SHAINSHAR	PARAS RAM	MANU S/O BHIKHU Total	313	2944	ONLY LAND	0.003540638		0105766
FATI SHAINSHAR KOTI SHAINSHAR	PARAS RAM		505	2952	ONLY LAND	0.003340638	0.023040404 0.020	1103700
		(blank)	505	2952	ONLY LAND	+		0
FATI SHAINSHAR KOTI SHAINSHAR	PARAS RAM	(blank) Total	643/1	2072/5		0.01298234	0.01298234	2050000
FATI SHAINSHAR KOTI SHAINSHAR	PARVIN KUMAR PARVIN KUMAR	SARVADAYAL S/O FATA RAM	643/1	2973/5	LAND & HOMESTEAD ONLY LAND	0.067980251		6059096
FATI SHAINSHAR KOTI SHAINSHAR		SARVADAYAL S/O FATA RAM	643/1	2973/6/1		0.027701952		3801229
FATI SHAINSHAR KOTI SHAINSHAR	PARVIN KUMAR	SARVADAYAL S/O FATA RAM Total	4.40 8.4181	F70	ONLY LAND	0.095682203	0.15975359 0.064	
FATI GADA PARLI KOTI SHAINSHAR	PASHARU	KADASHU S/O SANGAT RAM	143 MIN	570	LAND & HOMESTEAD	0.00370924		7728557
FATI GADA PARLI KOTI SHAINSHAR	PASHARU	KADASHU S/O SANGAT RAM Total		10.10	LAND & HOMESTEAD	0.00370924		7728557
FATI SHAINSHAR KOTI SHAINSHAR	PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	141	1942	LAND & HOMESTEAD	0.0018209		7882915
FATI SHAINSHAR KOTI SHAINSHAR	PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	361	2720	LAND & HOMESTEAD	0.000539526		0669012
FATI SHAINSHAR KOTI SHAINSHAR	PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	128 MIN		LAND & HOMESTEAD	0.000809289		6432822
FATI SHAINSHAR KOTI SHAINSHAR	PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	128 MIN		LAND & HOMESTEAD	0.004136364	0.004136364	0
FATI SHAINSHAR KOTI SHAINSHAR	PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	128 MIN	2/32	LAND & HOMESTEAD	0.002697629	0.002697629	0
FATI SHAINSHAR KOTI SHAINSHAR	PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA Total			LAND & HOMESTEAD	0.010003708	0.201220644 0.191	216937
FATI SHAINSHAR KOTI SHAINSHAR	PRADIP KUMAR	PURN PRAKASH S/O THAKAR DAS	718 MIN	2969	LAND & HOMESTEAD	0.016185774	0.016185774	0
FATI SHAINSHAR KOTI SHAINSHAR	PRADIP KUMAR	PURN PRAKASH S/O THAKAR DAS Total			LAND & HOMESTEAD	0.016185774	0.016185774	0
FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	NAND RAM S/O RAMU	332	2924	ONLY LAND	0.003237155	0.003237155	0
FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	NAND RAM S/O RAMU	332	2925	ONLY LAND	0.001618577	0.001618577	0
FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	NAND RAM S/O RAMU	332	2926	ONLY LAND	0.007283598	0.007283598	0
FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	NAND RAM S/O RAMU Total			ONLY LAND	0.012139331	0.012139331	0
FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2917	LAND & HOMESTEAD	0.010116109	0.110063264 0.099	3947155
FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2920	LAND & HOMESTEAD	0.003237155	0.003237155	0
FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2932	LAND & HOMESTEAD	0.003641799	0.003641799	0
FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2933	LAND & HOMESTEAD	0.001213933	0.001213933	0
FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2934	LAND & HOMESTEAD	0.00647431	0.00647431	0
FATI SHAINSHAR KOTI SHAINSHAR	PREMI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU To			LAND & HOMESTEAD	0.024683305	0.12463046 0.099	9947155
FATI SHAINSHAR KOTI SHAINSHAR	PRITAM CHAND	KARAM CHAND S/O FATE RAM	261	2947	ONLY LAND	0.099137866	0.099137866	0
FATI SHAINSHAR KOTI SHAINSHAR	PRITAM CHAND	KARAM CHAND S/O FATE RAM	261	2948	ONLY LAND	0.024278661	0.024278661	0
FATI SHAINSHAR KOTI SHAINSHAR	PRITAM CHAND	KARAM CHAND S/O FATE RAM	261	2950	ONLY LAND	0.030348326	0.030348326	0

VILLAGE	PAP_NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT	ACQ-I_HA	ΓL-I_HA Ι	BAL-I_HA
FATI SHAINSHAR KOTI SHAINSHAR	PRITAM CHAND	KARAM CHAND S/O FATE RAM	261	2953	ONLY LAND	0.020232218	0.020232218	0
FATI SHAINSHAR KOTI SHAINSHAR	PRITAM CHAND	KARAM CHAND S/O FATE RAM	261	2954	ONLY LAND	0.03439477	0.03439477	0
FATI SHAINSHAR KOTI SHAINSHAR	PRITAM CHAND	KARAM CHAND S/O FATE RAM Total			ONLY LAND	0.208391841	0.208391841	0
FATI GADA PARLI KOTI SHAINSHAR	PURUSHOTAM LAL	LOTAM RAM S/O SABJA CHAND	28 MIN	572	LAND & HOMESTEAD	0.008092887	0.487596444	0.479503557
FATI GADA PARLI KOTI SHAINSHAR	PURUSHOTAM LAL	LOTAM RAM S/O SABJA CHAND Total			LAND & HOMESTEAD	0.008092887	0.487596444	0.479503557
FATI SHAINSHAR KOTI SHAINSHAR	RAJ KUMARI D/O	TEDDI SINGH S/O FAGNU	128 MIN	1943	LAND & HOMESTEAD	0.002023222	0.193105277	0.191082055
FATI SHAINSHAR KOTI SHAINSHAR	RAJ KUMARI D/O	TEDDI SINGH S/O FAGNU	128 MIN	2729	LAND & HOMESTEAD	0.010340911	0.010340911	0
FATI SHAINSHAR KOTI SHAINSHAR	RAJ KUMARI D/O	TEDDI SINGH S/O FAGNU	128 MIN	2732	LAND & HOMESTEAD	0.006744073	0.006744073	0
FATI SHAINSHAR KOTI SHAINSHAR	RAJ KUMARI D/O	TEDDI SINGH S/O FAGNU Total			LAND & HOMESTEAD	0.019108206	0.210190261	0.191082055
FATI SHAINSHAR KOTI SHAINSHAR	RAJESH KUMAR	SARVADAYAL S/O FATA RAM	643/1	2973/5	LAND & HOMESTEAD	0.067980251	0.094039347	0.026059096
FATI SHAINSHAR KOTI SHAINSHAR	RAJESH KUMAR	SARVADAYAL S/O FATA RAM	643/1	2973/6/1	ONLY LAND	0.027701952	0.065714243	0.03801229
FATI SHAINSHAR KOTI SHAINSHAR	RAJESH KUMAR	SARVADAYAL S/O FATA RAM Total			ONLY LAND	0.095682203		0.064071387
FATI GADA PARLI KOTI SHAINSHAR	RAM SARAN H/O	SMT. ISHRU D/O KUNDAL	32 MIN	577	LAND & HOMESTEAD	0.022660084		0.193150237
FATI GADA PARLI KOTI SHAINSHAR	RAM SARAN H/O	SMT. ISHRU D/O KUNDAL	32 MIN	581	LAND & HOMESTEAD	0.009171939		0.152685802
FATI GADA PARLI KOTI SHAINSHAR	RAM SARAN H/O	SMT. ISHRU D/O KUNDAL	32 MIN	582	ONLY LAND	0.001618577		0.144592915
FATI GADA PARLI KOTI SHAINSHAR	RAM SARAN H/O	SMT. ISHRU D/O KUNDAL	32 MIN	583	ONLY LAND	0.004316206	0.004316206	0
FATI GADA PARLI KOTI SHAINSHAR	RAM SARAN H/O	SMT. ISHRU D/O KUNDAL Total		-	ONLY LAND	0.037766806		0.490428955
FATI GADA PARLI KOTI SHAINSHAR	RAMESH CHANDRA	SHAUJU S/O ALAM CHANDRA	146 MIN	579	ONLY LAND	0.016185774		2.084727702
	RAMESH CHANDRA	SHAUJU S/O ALAM CHANDRA	146 MIN		ONLY LAND	0.012948619	0.012948619	0
FATI GADA PARLI KOTI SHAINSHAR	RAMESH CHANDRA	SHAUJU S/O ALAM CHANDRA Total	1-70 IVIIIN	500	ONLY LAND	0.029134393	2.113862095	2 084727702
FATI SHAINSHAR KOTI SHAINSHAR	ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2917	LAND & HOMESTEAD	0.010116109		0.099947155
FATI SHAINSHAR KOTI SHAINSHAR	ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2920	LAND & HOMESTEAD	0.003237155	0.003237155	0.000047100
FATI SHAINSHAR KOTI SHAINSHAR	ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2932	LAND & HOMESTEAD	0.003237133	0.003237133	0
FATI SHAINSHAR KOTI SHAINSHAR	ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2932	LAND & HOMESTEAD	0.003041799	0.003041799	0
	ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329		LAND & HOMESTEAD	0.001213933	0.001213933	0
FATI SHAINSHAR KOTI SHAINSHAR	ROSHNA D/O		332	2934 2924	ONLY LAND			0
FATI SHAINSHAR KOTI SHAINSHAR		SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				0.003237155	0.003237155	0
FATI SHAINSHAR KOTI SHAINSHAR	ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	332	2925	ONLY LAND	0.001618577	0.001618577	0
FATI SHAINSHAR KOTI SHAINSHAR	ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	332	2926	ONLY LAND	0.007283598	0.007283598	0
FATI SHAINSHAR KOTI SHAINSHAR	ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU To		470	ONLY LAND	0.036822636		0.099947155
FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND	BHADU	169 MIN	479	LAND & HOMESTEAD	0.040717338		0.181015122
FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND	BHADU Total			LAND & HOMESTEAD	0.040717338		0.181015122
FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND	NEEKU S/O SANGAT RAM	143 MIN		LAND & HOMESTEAD	0.004945653		0.316971409
FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND	NEEKU S/O SANGAT RAM	143 MIN	575	LAND & HOMESTEAD	0.006744073		0.128137378
FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND	NEEKU S/O SANGAT RAM Total			LAND & HOMESTEAD	0.011689726		0.445108787
FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND F/O	SMT. LEELU D/O SMT. PURNU	32 MIN	577	LAND & HOMESTEAD	0.033990126		0.289725356
FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND F/O	SMT. LEELU D/O SMT. PURNU	32 MIN	581	LAND & HOMESTEAD	0.013757908		0.229028703
FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND F/O	SMT. LEELU D/O SMT. PURNU	32 MIN	582	ONLY LAND	0.002427866		0.216889373
FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND F/O	SMT. LEELU D/O SMT. PURNU	32 MIN	583	ONLY LAND	0.00647431	0.00647431	0
FATI GADA PARLI KOTI SHAINSHAR	SABJA CHAND F/O	SMT. LEELU D/O SMT. PURNU Total			ONLY LAND	0.056650209		0.735643432
FATI SHAINSHAR KOTI SHAINSHAR	SABJA CHANDRA	TARA CHAND S/O RILE RAM	346 MIN	2919	LAND & HOMESTEAD	0.038778417		0.065754707
FATI SHAINSHAR KOTI SHAINSHAR	SABJA CHANDRA	TARA CHAND S/O RILE RAM Total			LAND & HOMESTEAD	0.038778417		0.065754707
FATI SHAINSHAR KOTI SHAINSHAR	SARAN MAT	ALAM CHAND S/O MANGLU	324	2918	LAND & HOMESTEAD	0.017804351		0.022660084
FATI SHAINSHAR KOTI SHAINSHAR	SARAN MAT	ALAM CHAND S/O MANGLU Total			LAND & HOMESTEAD	0.017804351	0.040464435	0.022660084
FATI SHAINSHAR KOTI SHAINSHAR	SARD KUMARI D/O	BELI RAM S/O JAISI RAM	128 MIN		LAND & HOMESTEAD	0.000323715		0.030573129
FATI SHAINSHAR KOTI SHAINSHAR	SARD KUMARI D/O	BELI RAM S/O JAISI RAM	128 MIN		LAND & HOMESTEAD	0.001654546	0.001654546	0
FATI SHAINSHAR KOTI SHAINSHAR	SARD KUMARI D/O	BELI RAM S/O JAISI RAM	128 MIN	2732	LAND & HOMESTEAD	0.001079052	0.001079052	0
FATI SHAINSHAR KOTI SHAINSHAR	SARD KUMARI D/O	BELI RAM S/O JAISI RAM Total			LAND & HOMESTEAD	0.003057313	0.033630442	0.030573129
FATI GADA PARLI KOTI SHAINSHAR	SATISH KUMAR	GURDYAL SINGH S/O CHET RAM	273	571	LAND & HOMESTEAD	0.004046444	0.014757618	0.010711174
FATI GADA PARLI KOTI SHAINSHAR	SATISH KUMAR	GURDYAL SINGH S/O CHET RAM Total			LAND & HOMESTEAD	0.004046444	0.014757618	0.010711174
FATI SHAINSHAR KOTI SHAINSHAR	SEM SINGH	HARI SINGH S/O MADHU	141	1942	LAND & HOMESTEAD	0.027313494	0.745557219	0.718243725
FATI SHAINSHAR KOTI SHAINSHAR	SEM SINGH	HARI SINGH S/O MADHU Total			LAND & HOMESTEAD	0.027313494	0.745557219	0.718243725
FATI SHAINSHAR KOTI SHAINSHAR	SES RAM	AMAR CHAND S/O CHAINU	324	2918	LAND & HOMESTEAD	0.022255439		0.028325105
FATI SHAINSHAR KOTI SHAINSHAR	SES RAM	AMAR CHAND S/O CHAINU Total			LAND & HOMESTEAD	0.022255439		0.028325105
FATI SHAINSHAR KOTI SHAINSHAR	SES RAM	RAM S/O SMT. PREMI	574	2718	LAND & HOMESTEAD	0.03439477		0.038216411
FATI SHAINSHAR KOTI SHAINSHAR	SES RAM	RAM S/O SMT. PREMI Total			LAND & HOMESTEAD	0.03439477		0.038216411
FATI SHAINSHAR KOTI SHAINSHAR	SHAKUNTALA DEVI D/O	HUKMI RAM S/O HETU	731	2945	ONLY LAND	0.004046444	0.004046444	0
FATI SHAINSHAR KOTI SHAINSHAR	SHAKUNTALA DEVI D/O	HUKMI RAM S/O HETU	731	2949	ONLY LAND	0.002023222	0.002023222	0
FATI SHAINSHAR KOTI SHAINSHAR	SHAKUNTALA DEVI D/O	HUKMI RAM S/O HETU	731	2951	ONLY LAND	0.002023222	0.002023222	0
FATI SHAINSHAR KOTI SHAINSHAR	SHAKUNTALA DEVI D/O	HUKMI RAM S/O HETU	731	2956	ONLY LAND	0.003034833	0.003034833	0
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VILLAGE	PAP_NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT	ACQ-I_HA	TL-I_HA	BAL-I_HA
FATI SHAINSHAR KOTI SHAINSHAR	SHAKUNTALA DEVI D/O	HUKMI RAM S/O HETU	731	2955	ONLY LAND	0.009104498	0.009104498	0
FATI SHAINSHAR KOTI SHAINSHAR	SHAKUNTALA DEVI D/O	HUKMI RAM S/O HETU Total			ONLY LAND	0.024278661	0.024278661	0
FATI GADA PARLI KOTI SHAINSHAR	SHANU	PARI S/O HARFU	28 MIN	572	LAND & HOMESTEAD	0.007193677	0.433419061	0.426225384
FATI GADA PARLI KOTI SHAINSHAR	SHANU	PARI S/O HARFU Total			LAND & HOMESTEAD	0.007193677	0.433419061	0.426225384
FATI GADA PARLI KOTI SHAINSHAR	SHER SINGH	ANUP S/O SMAAM	169 MIN	479	LAND & HOMESTEAD	0.011633525	0.063352131	0.051718606
	SHER SINGH	ANUP S/O SMAAM Total			LAND & HOMESTEAD	0.011633525	0.063352131	0.051718606
FATI GADA PARLI KOTI SHAINSHAR	SHER SINGH	GAVE RAM S/O HARFI RAM	251MIN	573	LAND & HOMESTEAD	0.006744073	0.03746707	0.030722997
	SHER SINGH	GAVE RAM S/O HARFI RAM Total			LAND & HOMESTEAD	0.006744073	0.03746707	0.030722997
FATI SHAINSHAR KOTI SHAINSHAR	SHRAVAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	141	1942	LAND & HOMESTEAD	0.0018209	0.049703815	0.047882915
	SHRAVAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	361	2720	LAND & HOMESTEAD	0.000539526	0.067440725	0.0669012
	SHRAVAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	128 MIN		LAND & HOMESTEAD	0.000809289	0.077242111	0.076432822
FATI SHAINSHAR KOTI SHAINSHAR	SHRAVAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA			LAND & HOMESTEAD	0.004136364	0.004136364	0
	SHRAVAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	128 MIN		LAND & HOMESTEAD	0.002697629	0.002697629	0
	SHRAVAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA Total			LAND & HOMESTEAD	0.010003708		0.191216937
	SMT. AMBARI D/O	KADSHU S/O TULU	359	2721	LAND & HOMESTEAD	0.014162552	0.131509414	
	SMT. AMBARI D/O	KADSHU S/O TULU	359	2724	LAND & HOMESTEAD	0.059685042	0.059685042	0
	SMT. AMBARI D/O	KADSHU S/O TULU	360 MIN		LAND & HOMESTEAD	0.022761245	0.231658892	0.208897647
	SMT. AMBARI D/O	KADSHU S/O TULU	360 MIN		LAND & HOMESTEAD	0.030854132	0.030854132	0
	SMT. AMBARI D/O	KADSHU S/O TULU	360 MIN		LAND & HOMESTEAD	0.015174163	0.035034152	0
	SMT. AMBARI D/O	KADSHU S/O TULU	360 MIN		LAND & HOMESTEAD	0.009104498	0.009104498	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. AMBARI D/O	KADSHU S/O TULU	360 MIN		LAND & HOMESTEAD	0.009104498	0.022761245	0
	SMT. AMBARI D/O	KADSHU S/O TULU	360 MIN		LAND & HOMESTEAD	0.030854132	0.030854132	0
	SMT. AMBARI D/O	KADSHU S/O TULU Total	JOO WIIIV	ZIZI	LAND & HOMESTEAD	0.205357009	0.531601517	0.326244509
	SMT. AMRA DEVI W/O	THAKAR DAS S/O ALAM	574	2718	LAND & HOMESTEAD	0.020232218	0.042712459	
	SMT. AMRA DEVI W/O	THAKAR DAS S/O ALAM Total	314	27 10	LAND & HOMESTEAD	0.020232218	0.042712459	0.022480242
	SMT. AMVALU DEVI D/O	HUKMI RAM S/O HETU	731	2945	ONLY LAND	0.020232210	0.004046444	0.022400242
	SMT. AMVALU DEVI D/O	HUKMI RAM S/O HETU	731	2949	ONLY LAND	0.004040444	0.002023222	0
	SMT. AMVALU DEVI D/O	HUKMI RAM S/O HETU	731	2951	ONLY LAND	0.002023222	0.002023222	0
	SMT. AMVALU DEVI D/O	HUKMI RAM S/O HETU	731	2956	ONLY LAND	0.003034833	0.003034833	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. AMVALU DEVI D/O	HUKMI RAM S/O HETU	731	2955	ONLY LAND	0.003034633	0.003034633	0
	SMT. AMVALU DEVI D/O	HUKMI RAM S/O HETU Total	131	2955	ONLY LAND	0.009104496	0.009104496	0
	SMT. BHAGA DASI D/O	PARMANAND S/O DEVI RAM	335 MIN	2020		0.024276661		0.040970241
			335 IVIIIN	2929	LAND & HOMESTEAD			
	SMT. BHAGA DASI D/O	PARMANAND S/O DEVI RAM Total	146 MIN	F70	LAND & HOMESTEAD ONLY LAND	0.075870816	0.116841057	0.040970241 0.521181925
FATI GADA PARLI KOTI SHAINSHAR	SMT. BHAGATI DEVI WD/O	SHAUJU S/O ALAM CHANDRA				0.004046444 0.003237155	0.525228369	0.521181925
	SMT. BHAGATI DEVI WD/O	SHAUJU S/O ALAM CHANDRA	146 MIN	580	ONLY LAND		0.003237155	0.504404005
	SMT. BHAGATI DEVI WD/O	SHAUJU S/O ALAM CHANDRA Total	004	0040	ONLY LAND	0.007283598	0.528465524	
	SMT. CHITRU DEVI D/O	AMAR CHAND S/O CHAINU	324	2918	LAND & HOMESTEAD	0.001309143	0.002975326	
	SMT. CHITRU DEVI D/O	AMAR CHAND S/O CHAINU Total	00 1411		LAND & HOMESTEAD	0.001309143	0.002975326	0.001666183
	SMT. CHITU D/O	KUNDAL S/O BHAGDU/ MADU		577	LAND & HOMESTEAD	0.033990126	0.323715482	0.289725356
	SMT. CHITU D/O	KUNDAL S/O BHAGDU/ MADU	32 MIN	581	LAND & HOMESTEAD	0.013757908	0.242786611	0.229028703
	SMT. CHITU D/O	KUNDAL S/O BHAGDU/ MADU	32 MIN	582	ONLY LAND	0.002427866	0.219317239	0.216889373
	SMT. CHITU D/O	KUNDAL S/O BHAGDU/ MADU	32 MIN	583	ONLY LAND	0.00647431	0.00647431	0 705040400
	SMT. CHITU D/O	KUNDAL S/O BHAGDU/ MADU Total	400 1411	4040	ONLY LAND	0.056650209	0.792293641	0.735643432
	SMT. DALPATU WD/O	TEDDI SINGH S/O FAGNU	128 MIN		LAND & HOMESTEAD	0.002023222	0.193105277	0.191082055
	SMT. DALPATU WD/O	TEDDI SINGH S/O FAGNU	128 MIN		LAND & HOMESTEAD	0.010340911	0.010340911	0
	SMT. DALPATU WD/O	TEDDI SINGH S/O FAGNU	128 MIN	2/32	LAND & HOMESTEAD	0.006744073	0.006744073	0
	SMT. DALPATU WD/O	TEDDI SINGH S/O FAGNU Total	201	0700	LAND & HOMESTEAD	0.019108206		
	SMT. DASHMU WD/O	KAUL RAM	361	2720	LAND & HOMESTEAD	0.002312253	0.28903168	
FATI SHAINSHAR KOTI SHAINSHAR	SMT. DASHMU WD/O	KAUL RAM Total			LAND & HOMESTEAD	0.002312253	0.28903168	
	SMT. DASMU DEVI WD/O	BELI RAM S/O JAISI RAM	128 MIN		LAND & HOMESTEAD	0.000202322	0.019310528	0.019108206
	SMT. DASMU DEVI WD/O	BELI RAM S/O JAISI RAM	128 MIN		LAND & HOMESTEAD	0.001034091	0.001034091	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. DASMU DEVI WD/O	BELI RAM S/O JAISI RAM	128 MIN	2732	LAND & HOMESTEAD	0.000674407	0.000674407	0
	SMT. DASMU DEVI WD/O	BELI RAM S/O JAISI RAM Total			LAND & HOMESTEAD	0.001910821	0.021019026	0.019108206
FATI SHAINSHAR KOTI SHAINSHAR	SMT. DHARALU DEVI WD/O	PARAM RAM S/O CHET RAM	247 MIN	2971/4/2/4	ONLY LAND	0.008092887	0.008092887	0
	SMT. DHARALU DEVI WD/O	PARAM RAM S/O CHET RAM Total			ONLY LAND	0.008092887	0.008092887	0
	SMT. DOLMA D/O	JAI S/O KHIMU	143 MIN		LAND & HOMESTEAD	0.000989131	0.064383412	
	SMT. DOLMA D/O	JAI S/O KHIMU	143 MIN	575	LAND & HOMESTEAD	0.001348815	0.02697629	0.025627476
	SMT. DOLMA D/O	JAI S/O KHIMU Total			LAND & HOMESTEAD	0.002337945	0.091359703	0.089021757
FATI SHAINSHAR KOTI SHAINSHAR	SMT. DUGLI D/O	CHAINU @ CHAITRU S/O CHUHDU	515	2944	ONLY LAND	0.006294468	0.042038052	0.035743584
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VILLAGE	PAP_NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT	ACQ-I_HA	TL-I_HA	BAL-I_HA
FATI SHAINSHAR KOTI SHAINSHAR	SMT. DUGLI D/O	CHAINU @ CHAITRU S/O CHUHDU	508 MIN	2946	ONLY LAND	0.003596839	0.003596839	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. DUGLI D/O	CHAINU @ CHAITRU S/O CHUHDU Total			ONLY LAND	0.009891306	0.045634891	0.035743584
FATI GADA PARLI KOTI SHAINSHAR	SMT. FAGNI D/O	NEEKU S/O SANGAT RAM	143 MIN	575	LAND & HOMESTEAD	0.006744073	0.134881451	
FATI GADA PARLI KOTI SHAINSHAR	SMT. FAGNI D/O	NEEKU S/O SANGAT RAM Total			LAND & HOMESTEAD	0.006744073	0.134881451	
FATI SHAINSHAR KOTI SHAINSHAR	SMT. GANESHU W/O	CHET RAM S/O UDE RAM	702 MIN	3243/2964	ONLY LAND	0.006069665	0.010902917	
FATI SHAINSHAR KOTI SHAINSHAR	SMT. GANESHU W/O	CHET RAM S/O UDE RAM Total			ONLY LAND	0.006069665	0.010902917	
FATI SHAINSHAR KOTI SHAINSHAR	SMT. GUMATI WD/O	MANU S/O BHIKHU	505	2952	ONLY LAND	0.01298234	0.01298234	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. GUMATI WD/O	MANU S/O BHIKHU	515	2944	ONLY LAND	0.003540638	0.023646404	0.020105766
FATI SHAINSHAR KOTI SHAINSHAR	SMT. GUMATI WD/O	MANU S/O BHIKHU Total	0.0		ONLY LAND	0.016522978		0.020105766
FATI SHAINSHAR KOTI SHAINSHAR	SMT. GURI DEVI D/O	TEDDI SINGH S/O FAGNU	128 MIN	1943	LAND & HOMESTEAD	0.002023222		0.191082055
FATI SHAINSHAR KOTI SHAINSHAR	SMT. GURI DEVI D/O	TEDDI SINGH S/O FAGNU	128 MIN		LAND & HOMESTEAD	0.010340911	0.010340911	0.101002000
FATI SHAINSHAR KOTI SHAINSHAR	SMT. GURI DEVI D/O	TEDDI SINGH S/O FAGNU	128 MIN		LAND & HOMESTEAD	0.006744073	0.006744073	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. GURI DEVI D/O	TEDDI SINGH S/O FAGNU Total	120 IVIIIV	2132	LAND & HOMESTEAD	0.019108206	0.210190261	0.191082055
FATI GADA PARLI KOTI SHAINSHAR	SMT. HARI DEVI D/O	PARI S/O HARFU	28 MIN	572	LAND & HOMESTEAD	0.001798419	0.108354765	
FATI GADA PARLI KOTI SHAINSHAR	SMT. HARI DEVI D/O	PARI S/O HARFU	40 MIN	574/1	LAND & HOMESTEAD	0.007798419	0.539525803	
FATI GADA PARLI KOTI SHAINSHAR	SMT. HARI DEVI D/O	PARI S/O HARFU Total	40 IVIIIV	374/1	LAND & HOMESTEAD	0.00741848	0.647880568	
FATI GADA FARLI KOTI SHAINSHAR FATI SHAINSHAR KOTI SHAINSHAR	SMT. HEERA MANI D/O	KARAM DAS S/O UTTAM RAM	247 MIN	2074/2	ONLY LAND	0.009210899	0.008699854	0.030003009
FATI SHAINSHAR KOTI SHAINSHAR	SMT. HEERA MANI D/O	KARAM DAS S/O UTTAM RAM Total	Z47 IVIIIN	29/1/2	ONLY LAND	0.008699854	0.008699854	0
			20.4	4000/000				0.200225705
SUCHEHAN KOTHI VANOCI	SMT. HIMDASI WD/O	ANANT RAM S/O CHALE RAM	204	1802/398	ONLY LAND	0.010116109		0.360335795
SUCHEHAN KOTHI VANOGI	SMT. HIMDASI WD/O	ANANT RAM S/O CHALE RAM Total	160 1411	470	ONLY LAND	0.010116109		0.360335795
FATI GADA PARLI KOTI SHAINSHAR	SMT. HIULI WD/O	ANUP S/O SMAAM Total	169 MIN	4/9	LAND & HOMESTEAD	0.02326705	0.126704263	
FATI GADA PARLI KOTI SHAINSHAR	SMT. HIULI WD/O	ANUP S/O SMAAM Total	204	0700	LAND & HOMESTEAD	0.02326705	0.126704263	
FATI SHAINSHAR KOTI SHAINSHAR	SMT. HUMLI WD/O	KAMAL CHAND S/O PARMANAND	361	2720	LAND & HOMESTEAD	0.002312253	0.28903168	
FATI SHAINSHAR KOTI SHAINSHAR	SMT. HUMLI WD/O	KAMAL CHAND S/O PARMANAND Total			LAND & HOMESTEAD	0.002312253		0.286719427
FATI GADA PARLI KOTI SHAINSHAR	SMT. KAATKI D/O	MAADU S/O CHATTHER	13 MIN	578	ONLY LAND	0.001264514	0.230141475	
FATI GADA PARLI KOTI SHAINSHAR	SMT. KAATKI D/O	MAADU S/O CHATTHER Total			ONLY LAND	0.001264514		0.228876962
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KADSHI	KAMAL CHAND S/O PARMANAND	361	2720	LAND & HOMESTEAD	0.001926878	0.240859733	
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KADSHI	KAMAL CHAND S/O PARMANAND Total			LAND & HOMESTEAD	0.001926878	0.240859733	
FATI GADA PARLI KOTI SHAINSHAR	SMT. KAGNI D/O	NEETHU S/O SANGAT RAM	143 MIN	570	LAND & HOMESTEAD	0.004945653	0.321917062	
FATI GADA PARLI KOTI SHAINSHAR	SMT. KAGNI D/O	NEETHU S/O SANGAT RAM Total			LAND & HOMESTEAD	0.004945653	0.321917062	
FATI GADA PARLI KOTI SHAINSHAR	SMT. KALKI WD/O	ANU S/O KADASHU	143 MIN		ONLY LAND	0.001236413		0.079242852
FATI GADA PARLI KOTI SHAINSHAR	SMT. KALKI WD/O	ANU S/O KADASHU	143 MIN	575	LAND & HOMESTEAD	0.001686018	0.033720363	
FATI GADA PARLI KOTI SHAINSHAR	SMT. KALKI WD/O	ANU S/O KADASHU Total			LAND & HOMESTEAD	0.002922431	0.114199628	
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KALU D/O	MANU S/O BHIKHU	515	2944	ONLY LAND	0.003540638	0.023646404	
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KALU D/O	MANU S/O BHIKHU Total			ONLY LAND	0.003540638		0.020105766
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2917	LAND & HOMESTEAD	0.010116109		0.099947155
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2920	LAND & HOMESTEAD	0.003237155	0.003237155	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2932	LAND & HOMESTEAD	0.003641799	0.003641799	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2933	LAND & HOMESTEAD	0.001213933	0.001213933	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	329	2934	LAND & HOMESTEAD	0.00647431	0.00647431	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	332	2924	ONLY LAND	0.003237155	0.003237155	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	332	2925	ONLY LAND	0.001618577	0.001618577	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	332	2926	ONLY LAND	0.007283598	0.007283598	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU To			ONLY LAND	0.036822636		0.099947155
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LALDASI D/O	KURM DUTT S/O KADSU	357	1944	LAND & HOMESTEAD	0.006069665	0.078905649	0.072835983
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LALDASI D/O	KURM DUTT S/O KADSU	359	2721	LAND & HOMESTEAD	0.004720851	0.043836471	0.039115621
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LALDASI D/O	KURM DUTT S/O KADSU	359	2724	LAND & HOMESTEAD	0.019895014	0.019895014	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LALDASI D/O	KURM DUTT S/O KADSU	360 MIN	2719	LAND & HOMESTEAD	0.007587082	0.077219631	0.069632549
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LALDASI D/O	KURM DUTT S/O KADSU	360 MIN	2722	LAND & HOMESTEAD	0.010284711	0.010284711	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LALDASI D/O	KURM DUTT S/O KADSU	360 MIN	2723	LAND & HOMESTEAD	0.005058054	0.005058054	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LALDASI D/O	KURM DUTT S/O KADSU	360 MIN		LAND & HOMESTEAD	0.003034833	0.003034833	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LALDASI D/O	KURM DUTT S/O KADSU	360 MIN	2726	LAND & HOMESTEAD	0.007587082	0.007587082	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LALDASI D/O	KURM DUTT S/O KADSU	360 MIN		LAND & HOMESTEAD	0.010284711	0.010284711	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LALDASI D/O	KURM DUTT S/O KADSU Total			LAND & HOMESTEAD	0.074522001		0.181584153
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LARJU D/O	PARMANAND	361	2720	LAND & HOMESTEAD	0.000385376		0.047786571
FATI SHAINSHAR KOTI SHAINSHAR	SMT. LARJU D/O	PARMANAND Total	<u> </u>		LAND & HOMESTEAD	0.000385376	0.048171947	
FATI SHAINSHAR KOTI SHAINSHAR	SMT. MAANSAROVARA D/O	SARVADAYAL S/O FATA RAM	643/1	2973/5	LAND & HOMESTEAD	0.035608703	0.049258706	
FATI SHAINSHAR KOTI SHAINSHAR	SMT. MAANSAROVARA D/O	SARVADATAL S/O FATA RAM	643/1	2973/6/1	ONLY LAND	0.033000703	0.034421746	
	SMT. MAANSAROVARA D/O	SARVADAYAL S/O FATA RAM Total	3-10/1	_010/0/1	ONLY LAND	0.050119249		0.033561203
TATE OF A TROUBANT NOTE OF A TROUBANT	OWIT. WICHINGRING VAINA DIO	PARTADATAE GIOTATA NAMI TOTAL	1		OHE! LAND	0.000113243	0.000000402	0.000001200

VILLAGE	PAP_NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT		TL-I_HA	BAL-I_HA
FATI SHAINSHAR KOTI SHAINSHAR	SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA	141	1942	LAND & HOMESTEAD	0.0018209	0.049703815	0.047882915
FATI SHAINSHAR KOTI SHAINSHAR	SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA	361	2720	LAND & HOMESTEAD	0.000539526	0.067440725	0.0669012
FATI SHAINSHAR KOTI SHAINSHAR	SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA	128 MIN	1943	LAND & HOMESTEAD	0.000809289	0.077242111	0.076432822
FATI SHAINSHAR KOTI SHAINSHAR	SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA	128 MIN	2729	LAND & HOMESTEAD	0.004136364	0.004136364	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA	128 MIN	2732	LAND & HOMESTEAD	0.002697629	0.002697629	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA Total			LAND & HOMESTEAD	0.010003708	0.201220644	0.191216937
FATI SHAINSHAR KOTI SHAINSHAR	SMT. PANCHALU D/O	PARMANAND S/O JAGATU	361	2720	LAND & HOMESTEAD	0.001156127	0.14451584	0.143359713
FATI SHAINSHAR KOTI SHAINSHAR	SMT. PANCHALU D/O	PARMANAND S/O JAGATU Total			LAND & HOMESTEAD	0.001156127	0.14451584	0.143359713
FATI SHAINSHAR KOTI SHAINSHAR	SMT. PARVATI D/O	ALAM CHAND S/O MANGLU	324	2918	LAND & HOMESTEAD	0.017804351	0.040464435	0.022660084
FATI SHAINSHAR KOTI SHAINSHAR	SMT. PARVATI D/O	ALAM CHAND S/O MANGLU Total			LAND & HOMESTEAD	0.017804351	0.040464435	0.022660084
FATI GADA PARLI KOTI SHAINSHAR	SMT. RADHU D/O	HARFI RAM S/O VALE RAM	13 MIN	578	ONLY LAND	0.000158064	0.028767684	0.02860962
FATI GADA PARLI KOTI SHAINSHAR	SMT. RADHU D/O	HARFI RAM S/O VALE RAM Total			ONLY LAND	0.000158064	0.028767684	0.02860962
FATI GADA PARLI KOTI SHAINSHAR	SMT. RIKMU DEVI WD/O	JAI S/O KHIMU	143 MIN	570	LAND & HOMESTEAD	0.000989131	0.064383412	0.063394282
FATI GADA PARLI KOTI SHAINSHAR	SMT. RIKMU DEVI WD/O	JAI S/O KHIMU	143 MIN	575	LAND & HOMESTEAD	0.001348815	0.02697629	0.025627476
FATI GADA PARLI KOTI SHAINSHAR	SMT. RIKMU DEVI WD/O	JAI S/O KHIMU Total			LAND & HOMESTEAD	0.002337945	0.091359703	0.089021757
FATI SHAINSHAR KOTI SHAINSHAR	SMT. RUHNI DEVI WD/O	TARA CHAND S/O RILE RAM	346 MIN	2919	LAND & HOMESTEAD	0.015511367	0.04181325	0.026301883
FATI SHAINSHAR KOTI SHAINSHAR	SMT. RUHNI DEVI WD/O	TARA CHAND S/O RILE RAM Total			LAND & HOMESTEAD	0.015511367	0.04181325	0.026301883
FATI SHAINSHAR KOTI SHAINSHAR	SMT. SAMUDRI DEVI W/O	DASANTE SINGH S/O MAAN SINGH	718 MIN	2969	LAND & HOMESTEAD	0.012139331	0.012139331	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. SAMUDRI DEVI W/O	DASANTE SINGH S/O MAAN SINGH Total			LAND & HOMESTEAD	0.012139331	0.012139331	0
FATI GADA PARLI KOTI SHAINSHAR	SMT. SAVITRI DEVI W/O	SHYAM SUNDAR S/O KRISHNA LAL	277	569	LAND & HOMESTEAD	0.008092887	0.50580544	0.497712553
FATI GADA PARLI KOTI SHAINSHAR	SMT. SAVITRI DEVI W/O	SHYAM SUNDAR S/O KRISHNA LAL Total			LAND & HOMESTEAD	0.008092887	0.50580544	0.497712553
FATI GADA PARLI KOTI SHAINSHAR	SMT. SAVITRI DEVI W/O	UTTAM CHAND	143 MIN	575	LAND & HOMESTEAD	0.005058054	0.101161088	0.096103034
FATI GADA PARLI KOTI SHAINSHAR	SMT. SAVITRI DEVI W/O	UTTAM CHAND Total			LAND & HOMESTEAD	0.005058054		0.096103034
FATI SHAINSHAR KOTI SHAINSHAR	SMT. SAVITRI DEVI W/O	SHYAM SUNDAR S/O KRISHNA LAL	718 MIN	2969	LAND & HOMESTEAD	0.016185774	0.016185774	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. SAVITRI DEVI W/O	SHYAM SUNDAR S/O KRISHNA LAL	735 MIN	2966/5	ONLY LAND	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. SAVITRI DEVI W/O	SHYAM SUNDAR S/O KRISHNA LAL Total			ONLY LAND	0.024278661	0.024278661	0
FATI GADA PARLI KOTI SHAINSHAR	SMT. SEPATU D/O	HARU S/O KESARU	196 MIN	477	LAND & HOMESTEAD	0.101161088	0.347994143	0.246833055
FATI GADA PARLI KOTI SHAINSHAR	SMT. SEPATU D/O	HARU S/O KESARU Total			LAND & HOMESTEAD	0.101161088	0.347994143	0.246833055
FATI SHAINSHAR KOTI SHAINSHAR	SMT. SHANKRI DEVI WD/O	SHANGRU S/O KISHU	574	2718	LAND & HOMESTEAD	0.054626988	0.11532364	0.060696653
FATI SHAINSHAR KOTI SHAINSHAR	SMT. SHANKRI DEVI WD/O	SHANGRU S/O KISHU Total			LAND & HOMESTEAD	0.054626988	0.11532364	0.060696653
FATI SHAINSHAR KOTI SHAINSHAR	SMT. SHYAMA DEVI WD/O	BELI RAM S/O JAISI RAM	128 MIN	1943	LAND & HOMESTEAD	0.000202322	0.019310528	0.019108206
FATI SHAINSHAR KOTI SHAINSHAR	SMT. SHYAMA DEVI WD/O	BELI RAM S/O JAISI RAM	128 MIN	2729	LAND & HOMESTEAD	0.001034091	0.001034091	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. SHYAMA DEVI WD/O	BELI RAM S/O JAISI RAM	128 MIN	2732	LAND & HOMESTEAD	0.000674407	0.000674407	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. SHYAMA DEVI WD/O	BELI RAM S/O JAISI RAM Total			LAND & HOMESTEAD	0.001910821	0.021019026	0.019108206
FATI SHAINSHAR KOTI SHAINSHAR	SMT. THALU DEVI D/O	(blank)	505	2952	ONLY LAND	0.00556386	0.00556386	0
FATI SHAINSHAR KOTI SHAINSHAR	SMT. THALU DEVI D/O	(blank) Total			ONLY LAND	0.00556386	0.00556386	0
FATI GADA PARLI KOTI SHAINSHAR	SMT. TULAJU D/O	KUNDAL S/O BHAGDU/ MADU	32 MIN	577	LAND & HOMESTEAD	0.033990126	0.323715482	0.289725356
FATI GADA PARLI KOTI SHAINSHAR	SMT. TULAJU D/O	KUNDAL S/O BHAGDU/ MADU	32 MIN	581	LAND & HOMESTEAD	0.013757908	0.242786611	0.229028703
FATI GADA PARLI KOTI SHAINSHAR	SMT. TULAJU D/O	KUNDAL S/O BHAGDU/ MADU	32 MIN	582	LAND & HOMESTEAD	0.002427866	0.219317239	0.216889373
FATI GADA PARLI KOTI SHAINSHAR	SMT. TULAJU D/O	KUNDAL S/O BHAGDU/ MADU	32 MIN	583	ONLY LAND	0.00647431	0.00647431	0
FATI GADA PARLI KOTI SHAINSHAR	SMT. TULAJU D/O	KUNDAL S/O BHAGDU/ MADU Total			ONLY LAND	0.056650209	0.792293641	0.735643432
FATI SHAINSHAR KOTI SHAINSHAR	SMT. VUDHAVANTU WD/O	SANGAT RAM S/O KALI RAM	718 MIN	2967	LAND & HOMESTEAD	0.006069665	0.016474806	0.01040514
FATI SHAINSHAR KOTI SHAINSHAR	SMT. VUDHAVANTU WD/O	SANGAT RAM S/O KALI RAM Total			LAND & HOMESTEAD	0.006069665	0.016474806	0.01040514
FATI SHAINSHAR KOTI SHAINSHAR	SUKARMI DEVI D/O	HUKMI RAM S/O HETU	731	2945	ONLY LAND	0.004046444	0.004046444	0
FATI SHAINSHAR KOTI SHAINSHAR	SUKARMI DEVI D/O	HUKMI RAM S/O HETU	731	2949	ONLY LAND	0.002023222	0.002023222	0
FATI SHAINSHAR KOTI SHAINSHAR	SUKARMI DEVI D/O	HUKMI RAM S/O HETU	731	2951	ONLY LAND	0.006069665	0.006069665	0
FATI SHAINSHAR KOTI SHAINSHAR	SUKARMI DEVI D/O	HUKMI RAM S/O HETU	731	2956	ONLY LAND	0.003034833	0.003034833	0
FATI SHAINSHAR KOTI SHAINSHAR	SUKARMI DEVI D/O	HUKMI RAM S/O HETU	731	2955	ONLY LAND	0.009104498	0.009104498	0
FATI SHAINSHAR KOTI SHAINSHAR	SUKARMI DEVI D/O	HUKMI RAM S/O HETU Total			ONLY LAND	0.024278661	0.024278661	0
FATI SHAINSHAR KOTI SHAINSHAR	SURAT RAM	DOTU S/O RAM DAYAL	643/1	2972	LAND & HOMESTEAD	0.089021757		0.959007114
FATI SHAINSHAR KOTI SHAINSHAR	SURAT RAM	DOTU S/O RAM DAYAL	643/1	2973/2	LAND & HOMESTEAD	0.072835983	0.946867784	0.8740318
FATI SHAINSHAR KOTI SHAINSHAR	SURAT RAM	DOTU S/O RAM DAYAL Total			LAND & HOMESTEAD	0.161857741	1.994896655	1.833038915
FATI SHAINSHAR KOTI SHAINSHAR	TEJ RAM	LAJE RAM S/O RAMU	329	2917	LAND & HOMESTEAD	0.025290272		0.249867887
FATI SHAINSHAR KOTI SHAINSHAR	TEJ RAM	LAJE RAM S/O RAMU	329	2920	LAND & HOMESTEAD	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	TEJ RAM	LAJE RAM S/O RAMU	329	2932	LAND & HOMESTEAD	0.009104498	0.009104498	0
FATI SHAINSHAR KOTI SHAINSHAR	TEJ RAM	LAJE RAM S/O RAMU	329	2933	LAND & HOMESTEAD	0.003034833	0.003034833	0
	TEJ RAM	LAJE RAM S/O RAMU	329	2934	LAND & HOMESTEAD	0.016185774	0.016185774	0
FATI SHAINSHAR KOTI SHAINSHAR	TEJ RAM	LAJE RAM S/O RAMU Total			LAND & HOMESTEAD	0.061708264	0.311576151	0.249867887
	TEK RAM	KURM DUTT S/O KADSU	357	1944	LAND & HOMESTEAD	0.006069665	0.078905649	
o	1	1	, , , , ,			3.550000000	5.5. 50000 10	<u></u>

VILLAGE	PAP_NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT	ACQ-I_HA	TL-I_HA	BAL-I_HA
FATI SHAINSHAR KOTI SHAINSHAR	TEK RAM	KURM DUTT S/O KADSU	359	2721	LAND & HOMESTEAD	0.004720851	0.043836471	0.039115621
FATI SHAINSHAR KOTI SHAINSHAR	TEK RAM	KURM DUTT S/O KADSU	359	2724	LAND & HOMESTEAD	0.019895014	0.019895014	0
FATI SHAINSHAR KOTI SHAINSHAR	TEK RAM	KURM DUTT S/O KADSU	360 MIN	2719	LAND & HOMESTEAD	0.007587082	0.077219631	0.069632549
FATI SHAINSHAR KOTI SHAINSHAR	TEK RAM	KURM DUTT S/O KADSU	360 MIN	2722	LAND & HOMESTEAD	0.010284711	0.010284711	0
FATI SHAINSHAR KOTI SHAINSHAR	TEK RAM	KURM DUTT S/O KADSU	360 MIN	2723	LAND & HOMESTEAD	0.005058054	0.005058054	0
FATI SHAINSHAR KOTI SHAINSHAR	TEK RAM	KURM DUTT S/O KADSU	360 MIN	2725	LAND & HOMESTEAD	0.003034833	0.003034833	0
FATI SHAINSHAR KOTI SHAINSHAR	TEK RAM	KURM DUTT S/O KADSU	360 MIN	2726	LAND & HOMESTEAD	0.007587082	0.007587082	0
FATI SHAINSHAR KOTI SHAINSHAR	TEK RAM	KURM DUTT S/O KADSU	360 MIN	2727	LAND & HOMESTEAD	0.010284711	0.010284711	0
FATI SHAINSHAR KOTI SHAINSHAR	TEK RAM	KURM DUTT S/O KADSU Total			LAND & HOMESTEAD	0.074522001	0.256106154	0.181584153
FATI GADA PARLI KOTI SHAINSHAR	THAKAR DAS	LAGNA CHAND S/O NEEKA RAM @ NEEKU	273	571	LAND & HOMESTEAD	0.008092887	0.029515235	0.021422348
FATI GADA PARLI KOTI SHAINSHAR	THAKAR DAS	LAGNA CHAND S/O NEEKA RAM @ NEEKU	143 MIN	570	LAND & HOMESTEAD	0.001236413	0.080479266	0.079242852
FATI GADA PARLI KOTI SHAINSHAR	THAKAR DAS	LAGNA CHAND S/O NEEKA RAM @ NEEKU	143 MIN	575	LAND & HOMESTEAD	0.001686018	0.033720363	0.032034345
FATI GADA PARLI KOTI SHAINSHAR	THAKAR DAS	LAGNA CHAND S/O NEEKA RAM @ NEEKU Total			LAND & HOMESTEAD	0.011015318	0.143714863	0.132699545
FATI SHAINSHAR KOTI SHAINSHAR	THAKAR DAS	ALAM CHAND S/O MANGLU	324	2918	LAND & HOMESTEAD	0.017804351	0.040464435	0.022660084
FATI SHAINSHAR KOTI SHAINSHAR	THAKAR DAS	ALAM CHAND S/O MANGLU Total			LAND & HOMESTEAD	0.017804351	0.040464435	0.022660084
FATI SHAINSHAR KOTI SHAINSHAR	THAKAR DAS	DAUT RAM S/O NEEKU	247 MIN	2971/4/1	ONLY LAND	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	THAKAR DAS	DAUT RAM S/O NEEKU Total			ONLY LAND	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	THAKAR DUTT	ALAM CHAND	718 MIN	2970	LAND & HOMESTEAD	0.014162552	0.014162552	0
	THAKAR DUTT	ALAM CHAND Total	T		LAND & HOMESTEAD	0.014162552	0.014162552	0
FATI SHAINSHAR KOTI SHAINSHAR	TIRTH RAM	SANGAT RAM S/O KALI RAM	704	3244/2964	ONLY LAND	0.143648745	0.143648745	0
FATI SHAINSHAR KOTI SHAINSHAR	TIRTH RAM	SANGAT RAM S/O KALI RAM			ONLY LAND	0.020839184	0.020839184	0
FATI SHAINSHAR KOTI SHAINSHAR	TIRTH RAM	SANGAT RAM S/O KALI RAM	718 MIN		LAND & HOMESTEAD	0.026301883	0.026301883	ı o
FATI SHAINSHAR KOTI SHAINSHAR	TIRTH RAM	SANGAT RAM S/O KALI RAM	718 MIN		LAND & HOMESTEAD	0.178043515		0.305217454
FATI SHAINSHAR KOTI SHAINSHAR	TIRTH RAM	SANGAT RAM S/O KALI RAM	718 MIN		LAND & HOMESTEAD	0.022255439	0.022255439	0.000217101
FATI SHAINSHAR KOTI SHAINSHAR	TIRTH RAM	SANGAT RAM S/O KALI RAM Total	7 TO IVIIIV	2300	LAND & HOMESTEAD	0.391088766	0.69630622	0.305217454
FATI GADA PARLI KOTI SHAINSHAR	TULE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU	143 MIN	570	LAND & HOMESTEAD	0.001236413	0.080479266	
FATI GADA PARLI KOTI SHAINSHAR	TULE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU	143 MIN		LAND & HOMESTEAD	0.001686018	0.033720363	
FATI GADA PARLI KOTI SHAINSHAR	TULE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU Total	140 MIIN	575	LAND & HOMESTEAD	0.002922431	0.114199628	
FATI GADA PARLI KOTI SHAINSHAR	TULU	JHOJHA S/O GODANU	13 MIN	578	ONLY LAND	0.010116109	1.841131802	
FATI GADA PARLI KOTI SHAINSHAR	TULU	JHOJHA S/O GODANU Total	13 IVIIIV	570	ONLY LAND	0.010116109	1.841131802	
FATI GADA PARLI KOTI SHAINSHAR	UTTAM CHANDRA	VEERU S/O MADU	13 MIN	578	ONLY LAND	0.008693531	1.582222642	
FATI GADA PARLI KOTI SHAINSHAR	UTTAM CHANDRA	VEERU S/O MADU Total	13 IVIIIV		ONLY LAND	0.008693531	1.582222642	
FATI SHAINSHAR KOTI SHAINSHAR	UTTAM RAM	LAJE RAM S/O RAMU	329	2917	LAND & HOMESTEAD	0.005093331	0.275158159	
FATI SHAINSHAR KOTI SHAINSHAR	UTTAM RAM	LAJE RAM S/O RAMU	329	2920	LAND & HOMESTEAD	0.008092887	0.008092887	0.249007007
FATI SHAINSHAR KOTI SHAINSHAR	UTTAM RAM	LAJE RAM S/O RAMU	329	2932	LAND & HOMESTEAD	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	UTTAM RAM	LAJE RAM S/O RAMU	329	2933	LAND & HOMESTEAD	0.003034833	0.003034833	0
FATI SHAINSHAR KOTI SHAINSHAR	UTTAM RAM	LAJE RAM S/O RAMU	329	2934	LAND & HOMESTEAD	0.003034633	0.003034633	0
FATI SHAINSHAR KOTI SHAINSHAR	UTTAM RAM	LAJE RAM S/O RAMU Total	329	2934	LAND & HOMESTEAD	0.061708264		0.249867887
			334	2020		0.020232218		0.249007007
FATI SHAINSHAR KOTI SHAINSHAR	UTTAM RAM	LALU S/O TAMARE RAM	334	2930	ONLY LAND		0.020232218	0
FATI SHAINSHAR KOTI SHAINSHAR	UTTAM RAM	LALU S/O TAMARE RAM Total	O 47 MAINI	2971/4/2/3	ONLY LAND	0.020232218	0.020232218	0
FATI SHAINSHAR KOTI SHAINSHAR	VALI RAM	DOLE RAM S/O SANGAT RAM	247 IVIIN	29/1/4/2/3	ONLY LAND	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	VALI RAM	DOLE RAM S/O SANGAT RAM Total	505	0050	ONLY LAND	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	VARU	SMT. LALI DEVI WD/O BHIKHU	505	2952	ONLY LAND	0.00741848	0.00741848	0
FATI SHAINSHAR KOTI SHAINSHAR	VARU	SMT. LALI DEVI WD/O BHIKHU	515	2944	ONLY LAND	0.014162552	0.094585617	
FATI SHAINSHAR KOTI SHAINSHAR	VARU	SMT. LALI DEVI WD/O BHIKHU Total	4 40 1 411		ONLY LAND	0.021581032	0.102004097	0.080423065
FATI GADA PARLI KOTI SHAINSHAR	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM	140 MIN		LAND & HOMESTEAD	0.006069665	0.485573222	0.479503557
FATI GADA PARLI KOTI SHAINSHAR	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM	143 MIN		LAND & HOMESTEAD	0.00370924	0.241437797	0.237728557
FATI GADA PARLI KOTI SHAINSHAR	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM	32 MIN	577	LAND & HOMESTEAD	0.016995063	0.161857741	
FATI GADA PARLI KOTI SHAINSHAR	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM	32 MIN	581	LAND & HOMESTEAD	0.006878954	0.121393306	
FATI GADA PARLI KOTI SHAINSHAR	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM	32 MIN	582	ONLY LAND	0.001213933	0.109658619	0.108444686
FATI GADA PARLI KOTI SHAINSHAR	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM	32 MIN	583	ONLY LAND	0.003237155	0.003237155	0
FATI GADA PARLI KOTI SHAINSHAR	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM Total			ONLY LAND	0.03810401	1.12315784	1.08505383
FATI SHAINSHAR KOTI SHAINSHAR	VIDHYA BHUSHAN	HUKMI RAM S/O HETU	731	2945	ONLY LAND	0.004046444	0.004046444	0
FATI SHAINSHAR KOTI SHAINSHAR	VIDHYA BHUSHAN	HUKMI RAM S/O HETU	731	2949	ONLY LAND	0.002023222	0.002023222	0
FATI SHAINSHAR KOTI SHAINSHAR	VIDHYA BHUSHAN	HUKMI RAM S/O HETU	731	2951	ONLY LAND	0.006069665	0.006069665	0
FATI SHAINSHAR KOTI SHAINSHAR	VIDHYA BHUSHAN	HUKMI RAM S/O HETU	731		ONLY LAND	0.003034833	0.003034833	0
FATI SHAINSHAR KOTI SHAINSHAR	VIDHYA BHUSHAN	HUKMI RAM S/O HETU	731	2955	ONLY LAND	0.009104498	0.009104498	0
FATI SHAINSHAR KOTI SHAINSHAR	VIDHYA BHUSHAN	HUKMI RAM S/O HETU Total			ONLY LAND	0.024278661	0.024278661	0
FATI GADA PARLI KOTI SHAINSHAR	VINOD KUMAR	JAMDEV S/O CHET RAM	273	571	LAND & HOMESTEAD	0.008092887	0.029515235	0.021422348

VILLAGE	PAP_NAME	FATHER_NAME	S.No.	KHASRA	LOSING WHAT	ACQ-I_HA	TL-I_HA	BAL-I_HA
FATI GADA PARLI KOTI SHAINSHAR	VINOD KUMAR	JAMDEV S/O CHET RAM Total			LAND & HOMESTEAD	0.008092887	0.029515235	0.021422348
FATI SHAINSHAR KOTI SHAINSHAR	VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA	141	1942	LAND & HOMESTEAD	0.0018209	0.049703815	0.047882915
FATI SHAINSHAR KOTI SHAINSHAR	VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA	361	2720	LAND & HOMESTEAD	0.000539526	0.067440725	0.0669012
FATI SHAINSHAR KOTI SHAINSHAR	VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA	128 MIN	1943	LAND & HOMESTEAD	0.000809289	0.077242111	0.076432822
FATI SHAINSHAR KOTI SHAINSHAR	VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA	128 MIN	2729	LAND & HOMESTEAD	0.004136364	0.004136364	0
FATI SHAINSHAR KOTI SHAINSHAR	VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA	128 MIN	2732	LAND & HOMESTEAD	0.002697629	0.002697629	0
FATI SHAINSHAR KOTI SHAINSHAR	VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA Total			LAND & HOMESTEAD	0.010003708	0.201220644	0.191216937
FATI GADA PARLI KOTI SHAINSHAR	VIRU	KADASHU S/O SANGAT RAM	143 MIN	575	LAND & HOMESTEAD	0.005058054	0.101161088	0.096103034
FATI GADA PARLI KOTI SHAINSHAR	VIRU	KADASHU S/O SANGAT RAM Total			LAND & HOMESTEAD	0.005058054	0.101161088	0.096103034
FATI GADA PARLI KOTI SHAINSHAR	VISHAN DAS	ANU S/O KADASHU	143 MIN	570	LAND & HOMESTEAD	0.001236413	0.080479266	0.079242852
FATI GADA PARLI KOTI SHAINSHAR	VISHAN DAS	ANU S/O KADASHU	143 MIN	575	LAND & HOMESTEAD	0.001686018	0.033720363	0.032034345
FATI GADA PARLI KOTI SHAINSHAR	VISHAN DAS	ANU S/O KADASHU Total			LAND & HOMESTEAD	0.002922431	0.114199628	0.111277197
FATI SHAINSHAR KOTI SHAINSHAR	YADVINDER SINGH	MOHAR SINGH S/O MOHAN SINGH	247 MIN	2971/4/2/1	ONLY LAND	0.008092887	0.008092887	0
FATI SHAINSHAR KOTI SHAINSHAR	YADVINDER SINGH	MOHAR SINGH S/O MOHAN SINGH Total			ONLY LAND	0.008092887	0.008092887	0

## ANNEXURE-IV HOMESTEADS/ SHEDS LIKELY TO BE ACQUIRED

VILLAGE	S.No.	PAP NAME	FATHER_NAME	RESIDENCE	KHASRA	NO. OF HOUSE/ SHEDS	REMARKS HOUSE/SHEDS
FATI SHAINSHAR KOTI SHAINSHAR		1 HIRA SINGH	SABJA CHANDRA S/O BHADU	GADA PARLI KOTHI SHAISHAR	1942		HOMESTEADS/ SHED UNDER CONST RUCTION
FATI SHAINSHAR KOTI SHAINSHAR		1 DHUP SINGH	SABJA CHANDRA S/O BHADU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		1 SHRAVAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		1 VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		1 NIRENDRA KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		1 PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		1 SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		1 GURDHYAN SINGH	JHAVE RAM S/O MADU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		1 SEM SINGH	HARI SINGH S/O MADHU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		1 DAULAT SINGH	HARI SINGH S/O MADHU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR		3 FATA CHAND	JHOKA S/O ANANT RAM	GADA PARLI KOTHI SHAISHAR	571	8	HOMESTEADS/ SHED
FATI GADA PARLI KOTI SHAISHAR		3 DUNI CHAND	RADHE RAM @ EECHHE RAM S/O TULE RAM	GADA PARLI KOTHI SHAISHAR	071		THOMESTERES ONES
FATI GADA PARLI KOTI SHAISHAR		3 THAKAR DAS	LAGNA CHAND S/O NEEKA RAM @ NEEKU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR		3 MOHAR SINGH	RAM SARU S/O DILE RAM	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR		3 BHADAR SINGH	FATA CHAND S/O JHOKA	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR		3 SATISH KUMAR	GURDYAL SINGH S/O CHET RAM	MADANA			
FATI GADA PARLI KOTI SHAISHAR		3 LAL SINGH	DAULAT RAM S/O CHET RAM	MADANA			
FATI GADA PARLI KOTI SHAISHAR		3 VINOD KUMAR	JAMDEV S/O CHET RAM	MADANA		1	
FATI GADA PARLI KOTI SHAISHAR		3 DOLA SINGH	TOB RAM S/O CHHAPE RAM	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR		7 SMT. SAVITRI DEVI W/O	SHYAM SUNDAR S/O KRISHNA LAL	FATI DASHAD KOTHI VANOGI	569	1	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	324		ALAM CHAND S/O MANGLU	FATI SUCHAIHAN KOT I VANOGI	2918		HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR		4 THAKAR DAS	ALAM CHAND S/O MANGLU ALAM CHAND S/O MANGLU	FATI SUCHAIHAN KOTI VANOGI	2310	11	HOWLEST EADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR		4 BELI RAM	ALAM CHAND S/O MANGLU ALAM CHAND S/O MANGLU	FATI SUCHAIHAN KOTI VANOGI		+	
FATI SHAINSHAR KOTI SHAINSHAR		4 DINE RAM	ALAM CHAND S/O MANGLU	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR		4 SMT. PARVATI D/O	ALAM CHAND S/O MANGLU	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR		4 NARPAT	MAN DAS S/O PARSU	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR		4 SES RAM	AMAR CHAND S/O CHAINU	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR		4 GULAB CHAND	AMAR CHAND S/O CHAINU	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR		4 SMT. CHITRU DEVI D/O	AMAR CHAND S/O CHAINU	FATI SUCHAIHAN KOTI VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR		4 DEVLU DEVI D/O	AMAR CHAND S/O CHAINU	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR		4 CHAINU D/O	AMAR CHAND S/O CHAINU	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR		9 UTTAM RAM	LAJE RAM S/O RAMU	FATI SUCHAIHAN KOT I VANOGI	2917	4	HOMESTEADS/ SHED UNDER CONST RUCTION
FATI SHAINSHAR KOTI SHAINSHAR		9 TEJ RAM	LAJE RAM S/O RAMU	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR		9 SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 PREMI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 FULA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 UTTAM RAM	LAJE RAM S/O RAMU	FATI SUCHAIHAN KOTI VANOGI	2920	3	HOMESTEADS/ SHED UNDER CONST RUCTION
FATI SHAINSHAR KOTI SHAINSHAR		9 TEJ RAM	LAJE RAM S/O RAMU	FATI SUCHAIHAN KOTI VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR		9 SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 PREMI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 FULA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 UTTAM RAM	LAJE RAM S/O RAMU	FATI SUCHAIHAN KOT I VANOGI	2932	2	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR		9 TEJ RAM	LAJE RAM S/O RAMU	FATI SUCHAIHAN KOTI VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR		9 SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 PREMI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 FULA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU				
FATI SHAINSHAR KOTI SHAINSHAR		9 UTTAM RAM	LAJE RAM S/O RAMU	FATI SUCHAIHAN KOTI VANOGI	2933	3	HOMESTEADS UNDER CONST RUCTION
FATI SHAINSHAR KOTI SHAINSHAR		9 TEJ RAM	LAJE RAM S/O RAMU	FATI SUCHAIHAN KOTI VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR	329	9 SMT. KAMLA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	FATI SUCHAIHAN KOTI VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR	329	9 PREMI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	FATI SUCHAIHAN KOTI VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR	329	9 HIRAMATI D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR	329	9 ROSHNA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR	329	9 FULA D/O	SMT. LEELA DEVI WD/O NAND RAM S/O RAMU	FATI SUCHAIHAN KOT I VANOGI			

FATI SHAINSHAR KOTI SHAINSHAR	222	MOHAR SINGH	JEETU S/O FARETAM	FATI SUCHAIHAN KOT I VANOGI	2921	c	2 OLD, 4 NEW UNDER CONST RUCTION
					3100/2914		
FATI SHAINSHAR KOTI SHAINSHAR		MAN CHANDRA	DHANI RAM S/O KATU	FATI SUCHAIHAN KOT I VANOGI			HOMESTEADS/ SHED UNDER CONST RUCTION
FATI SHAINSHAR KOTI SHAINSHAR		MAN CHANDRA	DHANI RAM S/O KATU	FATI SUCHAIHAN KOT I VANOGI	3101/2914		HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR		HARFI RAM	PARAS S/O MAN CHAND	GADA PARLI KOTHI SHAISHAR	1944	2	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR		BELI RAM	KURM DUTT S/O KADSU	GADA PARLI KOT HI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		TEK RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR	<b>.</b>		
FATI SHAINSHAR KOTI SHAINSHAR		SMT. LALDASI D/O	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		BELI RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR	2721	3	HOMESTEADS
FATI SHAINSHAR KOTI SHAINSHAR		TEK RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		SMT. LALDASI D/O	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		DILE RAM	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		SMT. AMBARI D/O	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		BELI RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR	2724	20	HOMESTEADS
FATI SHAINSHAR KOTI SHAINSHAR		TEK RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		SMT. LALDASI D/O	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	359	DILE RAM	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	359	SMT. AMBARI D/O	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	361	HIRA SINGH	SABJA CHANDRA S/O BHADU	GADA PARLI KOTHI SHAISHAR	2720	3	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	361	DHUP SINGH	SABJA CHANDRA S/O BHADU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	361	SHRAVAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	361	VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	361	NIRENDRA KUM AR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOT I SHAINSHAR	361		JHAVE RAM S/O MADU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		DILE RAM	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI SHAINSHAR KOTI SHAINSHAR		DEVI SINGH	KAHAN CHAND S/O ANANT RAM	FATI GADA PARLI			
FATI SHAINSHAR KOTI SHAINSHAR		SMT. DASHMU WD/O	KAUL RAM	FATI GADA PARLI			
FATI SHAINSHAR KOTI SHAINSHAR		SMT. PANCHALU D/O	PARMANAND S/O JAGAT U	FATI GADA PARLI			
FATI SHAINSHAR KOTI SHAINSHAR		PAINU	PARMANAND	FATI GADA PARLI			
FATI SHAINSHAR KOTI SHAINSHAR		CHUNI LAL	PARMANAND	FATI GADA PARLI	<del>                                     </del>		
		SMT. LARJU D/O		FATI GADA PARLI			
FATI SHAINSHAR KOTI SHAINSHAR			PARMANAND				
FATI SHAINSHAR KOTI SHAINSHAR		SMT. KADSHI	KAMAL CHAND S/O PARM ANAND	FATI GADA PARLI			
FATI SHAINSHAR KOTI SHAINSHAR		HETI D/O	KAMAL CHAND S/O PARM ANAND	FATI GADA PARLI	<b>.</b>		
FATI SHAINSHAR KOTI SHAINSHAR		HUMA D/O	KAMAL CHAND S/O PARM ANAND	FATI GADA PARLI			
FATI SHAINSHAR KOTI SHAINSHAR	361		KAMAL CHAND S/O PARM ANAND	FATI GADA PARLI			
FATI SHAINSHAR KOTI SHAINSHAR		SMT. SHANKRI DEVI WD/O	SHANGRU S/O KISHU	GADA PARLI KOTHI SHAISHAR	2718	15	15 HOMESTEADS MORE THAN 10 YRS OLD;
FATI SHAINSHAR KOTI SHAINSHAR		SES RAM	RAM S/O SMT. PREMI	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR		SMT. AMRA DEVI W/O	THAKAR DAS S/O ALAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR			FAGNU RAM S/O KALI RAM S/O BALI RAM	FATI SHAINSHAR KOTI SHAINSHA	2728	2	2 HOMESTEADS; 1 OLD 2YRS
FATI SHAINSHAR KOTI SHAINSHAR	777	BANJAR GAIR MAKBUJA C/O	MOTU	FATI SHAINSHAR KOTI SHAINSHA	AR		
FATI SHAINSHAR KOTI SHAINSHAR	777	BANJAR GAIR MAKBUJA C/O	FAGNU RAM S/O KALI RAM S/O BALI RAM	FATI SHAINSHAR KOTI SHAINSHA	2731	2	HOMESTEADS
FATI SHAINSHAR KOTI SHAINSHAR	777	BANJAR GAIR MAKBUJA C/O	MOTU	FATI SHAINSHAR KOT I SHAINSHA	AR		
FATI SHAINSHAR KOTI SHAINSHAR	777	BANJAR GAIR MAKBUJA C/O	FAGNU RAM S/O KALI RAM S/O BALI RAM	FATI SHAINSHAR KOT I SHAINSHA	2733	2	2 HOMESTEADS/ SHED UNDER CONST RUCTION
FATI SHAINSHAR KOTI SHAINSHAR	777	BANJAR GAIR MAKBUJA C/O	MOTU	FATI SHAINSHAR KOT I SHAINSHA	AR		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	BALBIR SINGH	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR	1943	2	2 HOMESTEADS/ SHED UNDER CONST RUCTION
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	AIN SINGH	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SARD KUMARI D/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	DURGA DEVI D/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	NEELMA DEVI D/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOT I SHAINSHAR	128 MIN	SMT. DASMU DEVI WD/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR	† †		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN		BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR	† †		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	FATA CHAND	JAISI RAM S/O FAGNU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	ARJAN SINGH	JAISI RAM S/O FAGNU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. GURI DEVI D/O	TEDDI SINGH S/O FAGNU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	RAJ KUMARI D/O	TEDDI SINGH S/O FAGNU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. DALPATU WD/O	TEDDI SINGH S/O FAGNU	GADA PARLI KOTHI SHAISHAR	1		
					<del>                                     </del>		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	HIRA SINGH	SABJA CHANDRA S/O BHADU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	DHUP SINGH	SABJA CHANDRA S/O BHADU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SHRAVAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOT HI SHAISHAR	1		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	NIRENDRA KUM AR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			

FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	GURDHYAN SINGH	JHAVE RAM S/O MADU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	BALBIR SINGH	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR	2729	3	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	AIN SINGH	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SARD KUMARI D/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	DURGA DEVI D/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	NEELMA DEVI D/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. DASMU DEVI WD/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. SHYAMA DEVI WD/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	FATA CHAND	JAISI RAM S/O FAGNU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	ARJAN SINGH	JAISI RAM S/O FAGNU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. GURI DEVI D/O	TEDDI SINGH S/O FAGNU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	RAJ KUMARI D/O	TEDDI SINGH S/O FAGNU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. DALPATU WD/O	TEDDI SINGH S/O FAGNU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	HIRA SINGH	SABJA CHANDRA S/O BHADU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	DHUP SINGH	SABJA CHANDRA S/O BHADU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SHRAVAN KUM AR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR	l l		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	NIRENDRA KUM AR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR	1		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR	l l		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR	1		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	GURDHYAN SINGH	JHAVE RAM S/O MADU	GADA PARLI KOTHI SHAISHAR	1		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	BALBIR SINGH	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR	2732	4	ALL HOMESTEADS/ SHED UNDER CONST RUCTION
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	AIN SINGH	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SARD KUMARI D/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	DURGA DEVI D/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	NEELMA DEVI D/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. DASMU DEVI WD/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. SHYAMA DEVI WD/O	BELI RAM S/O JAISI RAM	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	FATA CHAND	JAISI RAM S/O FAGNU	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	ARJAN SINGH	JAISI RAM S/O FAGNU	GADA PARLI KOTHI SHAISHAR	1		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. GURI DEVI D/O	TEDDI SINGH S/O FAGNU	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	RAJ KUMARI D/O	TEDDI SINGH S/O FAGNU	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. DALPATU WD/O	TEDDI SINGH S/O FAGNU	GADA PARLI KOTHI SHAISHAR	1		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	HIRA SINGH	SABJA CHANDRA S/O BHADU	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	DHUP SINGH	SABJA CHANDRA S/O BHADU	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SHRAVAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	VINOD KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	NIRENDRA KUM AR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	PAWAN KUMAR	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	SMT. MURTI DEVI WD/O	MOHAR SINGH S/O SABJA CHANDRA	GADA PARLI KOTHI SHAISHAR	i i		
FATI SHAINSHAR KOTI SHAINSHAR	128 MIN	GURDHYAN SINGH	JHAVE RAM S/O MADU	GADA PARLI KOTHI SHAISHAR	i i		
FATI GADA PARLI KOTI SHAISHAR	140 MIN	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR	576	1	HOMESTEADS/ SHED
FATI GADA PARLI KOTI SHAISHAR	140 MIN	DUNI CHAND		GADA PARLI KOTHI SHAISHAR		'	
FATI GADA PARLI KOT I SHAISHAR	143 MIN	ISHAR DAS	ANU S/O KADASHU	FATI SUCHAIHAN	570	12	HOMESTEADS/ SHED
FATI GADA PARLI KOT I SHAISHAR	143 MIN	VISHAN DAS	ANU S/O KADASHU	FATI SUCHAIHAN	1 0	12	
FATI GADA PARLI KOTI SHAISHAR	143 MIN	SMT. KALKI WD/O	ANU S/O KADASHU	FATI SUCHAIHAN	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	AJAM KUMAR	UTTAM CHANDRA S/O VIRU	FATI SUCHAIHAN	† †		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	CHANDRA SAIN	UTTAM CHANDRA S/O VIRU	FATI SUCHAIHAN	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	DALIP KUMAR	UTTAM CHANDRA S/O VIRU	FATI SUCHAIHAN	<del>                                     </del>		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	HET RAM	UTTAM CHANDRA S/O VIRU	FATI SUCHAIHAN	<b> </b>		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	DHARM VEER	UTTAM CHANDRA S/O THAKAR DAS	FATI SUCHAIHAN	<del>                                     </del>		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	HARAJ MAL	UTTAM CHANDRA S/O THAKAR DAS	FATI SUCHAIHAN	<del>                                     </del>		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	DARU	KADASHU S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	PASHARU	KADASHU S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	DYAN CHAND	JAI S/O KHIMU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	GEHAR SINGH	JAI S/O KHIMU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI GADA PARLI KOTI SHAISHAR  FATI GADA PARLI KOTI SHAISHAR	143 MIN	DEV RAM @ DEV RAJ	JAI S/O KHIMU JAI S/O KHIMU	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	SMT. DOLMA D/O	JAI S/O KHIMU JAI S/O KHIMU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	SMT. RIKMU DEVI WD/O	JAI S/O KHIMU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
I A I I GADA FARLI ROTT SHAISHAR	140 MIIIN	SIVIT. KIKIVIO DE VI WD/O	ON O/O IN IIIVIO	OADA I AKLI KUTI III SHAISHAK			

FATI GADA PARLI KOTI SHAISHAR	143 MIN	KHUB RAM	KHIMU S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOT I SHAISHAR	143 MIN	LAL CHAND	KHIMU S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	SABJA CHAND	NEEKU S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOT I SHAISHAR	143 MIN	SMT. KAGNI D/O	NEETHU S/O SANGAT RAM	GADA PARLI KOT HI SHAISHAR			
FATI GADA PARLI KOT I SHAISHAR	143 MIN	TULE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOT I SHAISHAR	143 MIN	THAKAR DAS	LAGNA CHAND S/O NEEKA RAM @ NEEKU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOT I SHAISHAR	143 MIN	CHHAPE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOT I SHAISHAR	143 MIN	BHAG CHAND	LAGNA CHAND S/O NEEKA RAM @ NEEKU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	143 MIN	ISHAR DAS	ANU S/O KADASHU	FATI SUCHAIHAN	575	2	HOMESTEADS/ SHED
FATI GADA PARLI KOTI SHAISHAR	143 MIN	VISHAN DAS	ANU S/O KADASHU	FATI SUCHAIHAN			
FATI GADA PARLI KOTI SHAISHAR	143 MIN	SMT. KALKI WD/O	ANU S/O KADASHU	FATI SUCHAIHAN	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	VIRU	KADASHU S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	DASHARAT	KADASHU S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	DYAN CHAND	JAI S/O KHIMU	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	MEHAR SINGH	JAI S/O KHIMU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	143 MIN	DEV RAM @ DEV RAJ	JAI S/O KHIMU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	143 MIN	SMT. DOLMA D/O	JAI S/O KHIMU	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	SMT. RIKMU DEVI WD/O	JAI S/O KHIMU	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	KHUB RAM	KHIMU S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	LAL CHAND	KHIMU S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	SABJA CHAND	NEEKU S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOT I SHAISHAR	143 MIN	SMT. FAGNI D/O	NEEKU S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	TULE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	THAKAR DAS	LAGNA CHAND S/O NEEKA RAM @ NEEKU	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	CHHAPE RAM	LAGNA CHAND S/O NEEKA RAM @ NEEKU	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	143 MIN	BHAG CHAND	LAGNA CHAND S/O NEEKA RAM @ NEEKU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	143 MIN	SMT. SAVITRI DEVI W/O	UTTAM CHAND	FATI SUCHAIHAN	1		
FATI GADA PARLI KOT I SHAISHAR	169 MIN	SHER SINGH	ANUP S/O SMAAM	GADA PARLI KOTHI SHAISHAR	479	5	HOMESTEADS/ SHED
FATI GADA PARLI KOT I SHAISHAR	169 MIN	MOHAN SINGH	ANUP S/O SMAAM	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	169 MIN	SMT. HIULI WD/O	ANUP S/O SM AAM	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOT I SHAISHAR	169 MIN	NIDHI SINGH	RAJU S/O DHANI RAM	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOT I SHAISHAR	169 MIN	KAHAN CHAND	SALAG RAM	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	169 MIN	MOTI RAM	SALAG RAM	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	169 MIN	GAVE RAM	HARFI RAM S/O PARAS RAM	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR		SABJA CHAND	BHADU	IGADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR FATI GADA PARLI KOTI SHAISHAR	169 MIN 169 MIN	SABJA CHAND BHAVE RAM	BHADU BHADU	GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOT I SHAISHAR	169 MIN		BHADU	GADA PARLI KOTHI SHAISHAR	477	3	3 HOMESTEADS UNDER CONST RUCTION
FATI GADA PARLI KOTI SHAISHAR FATI GADA PARLI KOTI SHAISHAR	169 MIN 169 MIN	BHAVE RAM SMT. SEPATU D/O	BHADU HARU S/O KESARU	GADA PARLI KOTHI SHAISHAR FATI & KOTHI SHAISHAR	477 478		3 HOMESTEADS UNDER CONSTRUCTION HOMESTEADS/ SHEDS
FATI GADA PARLI KOTI SHAISHAR FATI GADA PARLI KOTI SHAISHAR FATI GADA PARLI KOTI SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM	GADA PARLI KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR	478	6	HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI SHAINSHAR KOT I SHAINSHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM	GADA PARLI KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN	478 2971/1	6 8	HOMESTEADS/ SHEDS HOMESTEADS/ SHED
FATI GADA PARLI KOTI SHAISHAR FATI GADA PARLI KOTI SHAISHAR FATI GADA PARLI KOTI SHAISHAR FATI SHAINSHAR KOTI SHAINSHAR FATI GADA PARLI KOTI SHAINSHAR FATI GADA PARLI KOTI SHAINSHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU	GADA PARLI KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOTHI SHAISHAR	478	6 8	HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI SHAINSHAR KOT I SHAINSHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM	GADA PARLI KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN	478 2971/1	6 8	HOMESTEADS/ SHEDS HOMESTEADS/ SHED
FATI GADA PARLI KOTI SHAISHAR FATI GADA PARLI KOTI SHAISHAR FATI GADA PARLI KOTI SHAISHAR FATI SHAINSHAR KOTI SHAINSHAR FATI GADA PARLI KOTI SHAINSHAR FATI GADA PARLI KOTI SHAINSHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN 251 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR	478 2971/1	6 8	HOMESTEADS/ SHEDS HOMESTEADS/ SHED
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI SHAINSHAR KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN 251 MIN 251 MIN 251 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOTHI SHAISHAR GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR	478 2971/1	6 8	HOMESTEADS/ SHEDS HOMESTEADS/ SHED
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI SHAINSHAR KOT I SHAINSHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOTHI SHAISHAR GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA	478 2971/1	6 8	HOMESTEADS/ SHEDS HOMESTEADS/ SHED
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI SHAINSHAR KOT I SHAINSHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR FATI RAILI KOTHI MALAN GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR FATI SHAUNSHA	478 2971/1	6 8	HOMESTEADS/ SHEDS HOMESTEADS/ SHED
FATI GADA PARLI KOTI SHAISHAR FATI GADA PARLI KOTI SHAISHAR FATI GADA PARLI KOTI SHAISHAR FATI GADA PARLI KOTI SHAINSHAR FATI GADA PARLI KOTI SHAINSHAR FATI GADA PARLI KOTI SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA	478 2971/1	6 8	HOMESTEADS/ SHEDS HOMESTEADS/ SHED
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI SHAINSHAR KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU NARU RAM	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU	GADA PARLI KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA	478 2971/1	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU NARU RAM SHER SINGH	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O BHADU GAVE RAM S/O HARFI RAM	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR FATI SHAUNSHA	478 2971/1 573	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU NARU RAM SHER SINGH MANI RAM	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O BHADU GAVE RAM S/O HARFI RAM PARI S/O HARFU	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR FATI SHAUNSHA GADA PARLI KOT HI SHAISHAR	478 2971/1 573	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU NARU RAM SHAND MANI RAM SHANU	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O SHAUJU HARFI RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O HARFI RAM PARI S/O HARFU	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOTHI SHAISHAR GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR	478 2971/1 573	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI SHAINSHAR KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN 234 MIN 251 MI	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM NOKH SINGH DIKAM CHAND BIKAM CHAND GELU NARU RAM SHER SINGH MANI RAM SHANI SHANU SHANI SHANI SMT. HARI DEVI D/O	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O PAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O HARFI RAM PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI KAISHAR FATI RAILI KOTHI MALAN GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA GADA PARLI KOT HI SHAISHAR	478 2971/1 573	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 196 MIN 234 MIN 251 MI	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU NARU RAM SHER SINGH MANI RAM SHANU SMT. HARI DEVI D/O PURUSHOT AM LAL BUDH RAM	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O PARAS RAM CHHAPE RAM S/O MADU NEEKU S/O TULLU TESKU S/O TULLU TESKU S/O HARFI RAM PARI S/O HARFI PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU LOTAM RAM S/O SABJA CHAND MEHAR CHAND S/O CHAMRU	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOT HI MALAN GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA GADA PARLI KOT HI SHAISHAR	478 2971/1 573	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN 28 MIN 28 MIN 28 MIN 28 MIN 28 MIN 28 MIN 28 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU NARU RAM SHER SINGH MANI RAM SHER SINGH MANI RAM SHANU SMT. HARI DEVI D/O PURUSHOT AM LAL	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O PARAS RAM CHHAPE RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O HARFI RAM PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU LOTAM RAM S/O SABJA CHAND	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA GADA PARLI KOT HI SHAISHAR MATLA KOTHI SUNAIHAN THACHAN	478 2971/1 573 572	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI SHAINSHAR KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 169 MIN 196 MIN 234 MIN 251 MIN 28 MIN 28 MIN 28 MIN 28 MIN 32 MIN 32 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU NARU RAM SHER SINGH MANI RAM SHANU SMT. HARI DEVI D/O PURUSHOT AM SMT. TULAJU D/O	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O HARFI RAM PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU LOTAM RAM S/O SABJA CHAND MEHAR CHAND S/O CHAM RU KUNDAL S/O BHAGDU/ M ADU	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA GADA PARLI KOT HI SHAISHAR MATLA KOTHI SUNAIHAN THACHAN	478 2971/1 573 572	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 169 MIN 196 MIN 234 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 28 MIN 28 MIN 28 MIN 28 MIN 28 MIN 28 MIN 28 MIN 28 MIN 28 MIN 32 MIN 32 MIN 32 MIN 32 MIN 32 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU NARU RAM SHER SINGH MANI RAM SHANU SHANU SHANU SHANU SMT. HARI DEVI D/O PURUSHOT AM LAL BUDH RAM SMT. TULAJU D/O MOHAR SINGH MAHINDRA SINGH	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O HARFI RAM PARI S/O HARFU PARI S/O HARFU LOTAM RAM S/O SABJA CHAND MEHAR CHAND S/O CHAM RU KUNDAL S/O BHADU/I M ADU SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA GADA PARLI KOT HI SHAISHAR MATLA KOTHI SUNAIHAN THACHAN FATI SUCHAIHAN KOT I BABOGI FATI SUCHAIHAN KOT I BABOGI FATI SUCHAIHAN KOT I BABOGI	478 2971/1 573 572	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 28 MIN 28 MIN 28 MIN 28 MIN 32 MIN 32 MIN 32 MIN 32 MIN 32 MIN 32 MIN	BHAVE RAM SMT. SEPATU D/O DEVITHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU NARU RAM SHER SINGH MANI RAM SHANU SMT. HARI DEVI D/O PURUSHOT AM LAL BUDH RAM SMT. TULAJU D/O MOHAR SINGH MAHINDRA SINGH RAM SARAN H/O	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O HARFI RAM PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU DATA S/O BHAGU MEHAR CHAND S/O CHAM RU KUNDAL S/O BHAGU/M ADU SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA GADA PARLI KOT HI SHAISHAR THACHAN FATI SUCHAIHAN KOT I BABOGI	478 2971/1 573 572	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 196 MIN 196 MIN 234 MIN 251 MIN 28 MIN 28 MIN 28 MIN 28 MIN 28 MIN 32 MIN 32 MIN 32 MIN 32 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU NARU RAM SHER SINGH MANI RAM SHANU SHANU SHANU SHANU SMT. HARI DEVI D/O PURUSHOT AM LAL BUDH RAM SMT. TULAJU D/O MOHAR SINGH MAHINDRA SINGH	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O HARFI RAM PARI S/O HARFU PARI S/O HARFU LOTAM RAM S/O SABJA CHAND MEHAR CHAND S/O CHAM RU KUNDAL S/O BHADU/I M ADU SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA GADA PARLI KOT HI SHAISHAR MATLA KOTHI SUNAIHAN THACHAN FATI SUCHAIHAN KOT I BABOGI FATI SUCHAIHAN KOT I BABOGI FATI SUCHAIHAN KOT I BABOGI	478 2971/1 573 572	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 169 MIN 196 MIN 234 MIN 247 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 28 MIN 28 MIN 28 MIN 32 MIN 32 MIN 32 MIN 32 MIN 32 MIN 32 MIN 32 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM OKH SINGH DIKAM CHAND GELU NARU RAM SHER SINGH MANI RAM SHER SINGH MANI RAM SHANU SMT. HARI DEVI D/O PURUSHOT AM LAL BUDH RAM SMT. TULAJU D/O MOHAR SINGH MAHINDRA SINGH RAM SARAN H/O SMT. CHAND SMT. CHAND	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O BHARFI RAM PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU LOTAM RAM S/O SABJA CHAND MEHAR CHAND S/O CHAM RU KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. LEELU D/O SMT. PURNU	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR MATLA KOTHI SUNAIHAN THACHAN FATI SUCHAIHAN KOTI BABOGI	478 2971/1 573 572	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 169 MIN 196 MIN 234 MIN 251 MIN 28 MIN 28 MIN 28 MIN 28 MIN 28 MIN 32 MIN 3	BHAVE RAM  SMT. SEPATU D/O  DEVTHA RISHA VAHAT MAM  DELI RAM  CHANDER RAM  KHELI RAM  GAVE RAM  NOKH SINGH  DIKAM CHAND  GELU  NARU RAM  SHER SINGH  MANI RAM  SHANU  SHANU  SHANU  SMT. HARI DEVI D/O  PURUSHOT AM LAL  BUDH RAM  SMT. TULAJU D/O  MOHAR SINGH  MAHINDRA SINGH  RAM SARAN H/O  SMT. CHITU D/O  SMT. CHITU D/O  SMT. TULAJU D/O  MOHAR SINGH  MAHINDRA SINGH  RAM SARAN H/O  SMT. CHITU D/O  SMT. TULAJU D/O  MOHAR SINGH  MAHINDRA SINGH  RAM SARAN H/O  SMT. CHITU D/O  SMT. CHITU D/O  SMT. SINGH	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O HARFI RAM PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU LOTAM RAM S/O SABJA CHAND MEHAR CHAND S/O CHAM RU KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU KADSHU @ KADSHI RAM S/O SANGAT RAM	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI RAILI KOTHI MALAN GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR FATI SHAUNSHA GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR MATLA KOTHI SUNAIHAN THACHAN FATI SUCHAIHAN KOTI BABOGI	478 2971/1 573 572	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS HOMESTEADS/ SHEDS
FATI GADA PARLI KOT I SHAISHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 169 MIN 196 MIN 234 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 251 MIN 28 MIN 28 MIN 28 MIN 28 MIN 32 MIN 32 MIN 32 MIN 32 MIN 32 MIN 32 MIN 32 MIN 32 MIN	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM OKH SINGH DIKAM CHAND GELU NARU RAM SHER SINGH MANI RAM SHER SINGH MANI RAM SHANU SMT. HARI DEVI D/O PURUSHOT AM LAL BUDH RAM SMT. TULAJU D/O MOHAR SINGH MAHINDRA SINGH RAM SARAN H/O SMT. CHAND SMT. CHAND	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O BHARFI RAM PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU LOTAM RAM S/O SABJA CHAND MEHAR CHAND S/O CHAM RU KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. LEELU D/O SMT. PURNU	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR GADA PARLI KOTHI SHAISHAR MATLA KOTHI SUNAIHAN THACHAN FATI SUCHAIHAN KOTI BABOGI	572 577	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS HOMESTEADS/ SHEDS HOMESTEADS/ SHED
FATI GADA PARLI KOT I SHAISHAR FATI SHAINSHAR KOT I SHAINSHAR FATI GADA PARLI KOT I SHAISHAR	169 MIN 169 MIN 169 MIN 196 MIN 234 MIN 251 MIN 28 MIN 28 MIN 32 MIN 3	BHAVE RAM SMT. SEPATU D/O DEVTHA RISHA VAHAT MAM DELI RAM CHANDER RAM KHELI RAM GAVE RAM NOKH SINGH DIKAM CHAND GELU NARU RAM SHER SINGH MANI RAM SHANU SMT. HARI DEVI D/O PURUSHOT AM LAL BUDH RAM SMT. TULAJU D/O MOHAR SINGH RAM SINGH RAM SINGH RAM SHANI SMT. TULAJU D/O MOHAR SINGH RAM SINGH RAM SINGH RAM SARAN H/O SMT. CHITU D/O SABJA CHAND F/O HARI CHANDRA VEERU @ PAUSHU	BHADU HARU S/O KESARU CHANDE RAM S/O RATI RAM KARAM DAS S/O UTTAM RAM SHAUNU S/O MEDU JEET RAM S/O SHAUJU HARFI RAM S/O SHAUJU HARFI RAM S/O PARAS RAM CHHAPE RAM S/O RAM LAL SAKAT RAM S/O MADU NEEKU S/O TULLU TEJ RAM S/O BHADU GAVE RAM S/O HARFI RAM PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU PARI S/O HARFU LOTAM RAM S/O SABJA CHAND MEHAR CHAND S/O CHAM RU KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. ISHRU D/O KUNDAL KUNDAL S/O BHAGDU/ M ADU SMT. IEELU D/O SMT. PURNU KADSHU @ KADSHI RAM S/O SANGAT RAM KADSHU @ KADSHI RAM S/O SANGAT RAM	GADA PARLI KOT HI SHAISHAR FATI & KOTHI SHAISHAR FATI & KOTHI SHAISHAR FATI SHAISHAR KARDAR FATI RAILI KOTHI MALAN GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA FATI SHAUNSHA GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR GADA PARLI KOT HI SHAISHAR THACHAN FATI SUCHAIHAN KOT I BABOGI GADA PARLI KOT HI SHAISHAR	478 2971/1 573 572	6 8 6	HOMESTEADS/ SHEDS HOMESTEADS/ SHED HOMESTEADS/ SHEDS HOMESTEADS/ SHEDS

FATI GADA PARLI KOTI SHAISHAR	32 MIN	MAHINDRA SINGH	SMT. ISHRU D/O KUNDAL	FATI SUCHAIHAN KOT I BABOGI			
FATI GADA PARLI KOTI SHAISHAR	32 MIN	RAM SARAN H/O	SMT. ISHRU D/O KUNDAL	FATI SUCHAIHAN KOT I BABOGI			
FATI GADA PARLI KOTI SHAISHAR	32 MIN	SMT. CHITU D/O	KUNDAL S/O BHAGDU/ M ADU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	32 MIN	SABJA CHAND F/O	SMT. LEELU D/O SMT. PURNU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	32 MIN	HARI CHANDRA	KADSHU @ KADSHI RAM S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	32 MIN	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	32 MIN	SMT. TULAJU D/O	KUNDAL S/O BHAGDU/ M ADU	FATI SUCHAIHAN KOTI BABOGI	582	2	HOMESTEADS/ SHED
FATI GADA PARLI KOTI SHAISHAR	32 MIN	MOHAR SINGH	SMT. ISHRU D/O KUNDAL	FATI SUCHAIHAN KOTI BABOGI			
FATI GADA PARLI KOT I SHAISHAR	32 MIN	MAHINDRA SINGH	SMT. ISHRU D/O KUNDAL	FATI SUCHAIHAN KOT I BABOGI			
FATI GADA PARLI KOT I SHAISHAR	32 MIN	RAM SARAN H/O	SMT. ISHRU D/O KUNDAL	FATI SUCHAIHAN KOT I BABOGI			
FATI GADA PARLI KOTI SHAISHAR	32 MIN	SMT. CHITU D/O	KUNDAL S/O BHAGDU/ M ADU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	32 MIN	SABJA CHAND F/O	SMT. LEELU D/O SMT. PURNU	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	32 MIN	HARI CHANDRA	KADSHU @ KADSHI RAM S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR			
FATI GADA PARLI KOTI SHAISHAR	32 MIN	VEERU @ PAUSHU	KADSHU @ KADSHI RAM S/O SANGAT RAM	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	335 MIN	ELU RAM	PARAS RAM S/O MOTI RAM	FATI SUCHAIHAN KOTI VANOGI	2929	7	2 OLD, 5 NEW HOMESTEADS UNDER CONST RUCTION
FATI SHAINSHAR KOTI SHAINSHAR	335 MIN	KHUB RAM	PARAS RAM S/O MOTI RAM	FATI SUCHAIHAN KOTI VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR	335 MIN	DABE RAM	SES RAM S/O TULSI RAM	FATI SUCHAIHAN KOTI VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR	335 MIN	SMT. BHAGA DASI D/O	PARMANAND S/O DEVI RAM	FATI SUCHAIHAN KOTI VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR	346 MIN	SABJA CHANDRA	TARA CHAND S/O RILE RAM	FATI SUCHAIHAN KOTI VANOGI	2919	4	4 HOMESTEADS/ SHED UNDER CONST RUCTION
FATI SHAINSHAR KOTI SHAINSHAR	346 MIN	FATA CHAND	TARA CHAND S/O RILE RAM	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR	346 MIN	SMT. RUHNI DEVI WD/O	TARA CHAND S/O RILE RAM	FATI SUCHAIHAN KOT I VANOGI			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	HARFI RAM	PARAS S/O MAN CHAND	GADA PARLI KOTHI SHAISHAR	2719	9	3 HOMESTEADS MORE THAN 10 YRS OLD; 6 HOMES
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	BELI RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	TEK RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. LALDASI D/O	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	DILE RAM	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. AMBARI D/O	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	HARFI RAM	PARAS S/O MAN CHAND	GADA PARLI KOTHI SHAISHAR	2722	5	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	BELI RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	TEK RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. LALDASI D/O	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	DILE RAM	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. AMBARI D/O	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	HARFI RAM	PARAS S/O MAN CHAND	GADA PARLI KOTHI SHAISHAR	2723	2	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	BELI RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	TEK RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. LALDASI D/O	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	DILE RAM	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. AMBARI D/O	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	HARFI RAM	PARAS S/O MAN CHAND	GADA PARLI KOTHI SHAISHAR	2725	2	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	BELI RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	TEK RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. LALDASI D/O	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	DILE RAM	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. AMBARI D/O	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	HARFI RAM	PARAS S/O MAN CHAND	GADA PARLI KOTHI SHAISHAR	2726	2	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	BELI RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR	1		
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	TEK RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. LALDASI D/O	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR	1 1		
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	DILE RAM	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR	1		
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. AMBARI D/O	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR	1 1		
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	HARFI RAM	PARAS S/O MAN CHAND	GADA PARLI KOTHI SHAISHAR	2727	1	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	BELI RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR			
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	TEK RAM	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR	1 1		
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. LALDASI D/O	KURM DUTT S/O KADSU	GADA PARLI KOTHI SHAISHAR	1		
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	DILE RAM	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI SHAINSHAR KOTI SHAINSHAR	360 MIN	SMT. AMBARI D/O	KADSHU S/O TULU	GADA PARLI KOTHI SHAISHAR	1		
FATI GADA PARLI KOTI SHAISHAR	40 MIN	MANI RAM	PARI S/O HARFU	GADA PARLI KOTHI SHAISHAR	574/1	6	HOMESTEADS/ SHED
FATI GADA PARLI KOTI SHAISHAR	40 MIN	GYANU	PARI S/O HARFU	GADA PARLI KOTHI SHAISHAR	U1 4/1		NOMEO LA LOGA GITED
FATI GADA PARLI KOTI SHAISHAR	40 MIN	SMT. HARI DEVI D/O	PARI S/O HARFU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI GADA PARLI KOTI SHAISHAR	40 MIN	FAGNU	TULA RAM S/O PRIMU	GADA PARLI KOTHI SHAISHAR	<del>                                     </del>		
FATI SHAINSHAR KOTI SHAINSHAR	643/1	SURAT RAM	DOTU S/O RAM DAYAL	FATI RAILI KOTHI MALAN	2972	4	HOMESTEADS/ SHED
TATIONALINO LAN NO LI ORAINORAN	<b>ジザン/ I</b>	OOIVAT IVAIN	DO LO BIO IVUINI DIVINE	I ATT NAILI NOT HE WALAIN	2312	ı	LIONIEGI ENDO/ GITED

FATI SHAINSHAR KOTI SHAINSHAR	643/1	SURAT RAM	DOTU S/O RAM DAYAL	FATI RAILI KOTHI MALAN	2973/2 1	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	643/1	OM PRAKASH	MANI RAM S/O DOTU	FATI RAILI KOTHI MALAN	2973/4 5	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	643/1	PARVIN KUMAR	SARVADAYAL S/O FAT A RAM	FATI RAILI KOTHI MALAN	2973/5 3	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	643/1	RAJESH KUMAR	SARVADAYAL S/O FAT A RAM	FATI RAILI KOTHI MALAN		
FATI SHAINSHAR KOTI SHAINSHAR	643/1	SMT. MAANSAROVARA D/O	SARVADAYAL S/O FAT A RAM	FATI RAILI KOTHI MALAN		
FATI SHAINSHAR KOTI SHAINSHAR	643/1	INDIRA D/O	SARVADAYAL S/O FAT A RAM	FATI RAILI KOTHI MALAN		
FATI SHAINSHAR KOTI SHAINSHAR	643/1	DURGA M/O	SARVADAYAL S/O FAT A RAM	FATI RAILI KOTHI MALAN		
FATI SHAINSHAR KOTI SHAINSHAR	688 MIN	DEVTHA RISHA VAHAT MAM	CHANDE RAM S/O RATI RAM	FATI SHAINSHAR KOTI SHAINSHA	2927 5	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	CHET RAM	SANGAT RAM S/O KALI RAM	FATI RAILI KOTHI MALAN	2967 6	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	TIRTH RAM	SANGAT RAM S/O KALI RAM	FATI RAILI KOTHI MALAN		
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	SMT. VUDHAVANTU WD/O	SANGAT RAM S/O KALI RAM	FATI RAILI KOTHI MALAN		
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	CHET RAM	SANGAT RAM S/O KALI RAM	FATI RAILI KOTHI MALAN	2968 2	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	TIRTH RAM	SANGAT RAM S/O KALI RAM	FATI RAILI KOTHI MALAN		
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	CHET RAM	SANGAT RAM S/O KALI RAM	FATI RAILI KOTHI MALAN	2969 17	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	TIRTH RAM	SANGAT RAM S/O KALI RAM	FATI RAILI KOTHI MALAN		
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	BOLU RAM	CHALAKI	FATI DASHAD		
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	SMT. SAVITRI DEVI W/O	SHYAM SUNDAR S/O KRISHNA LAL	FATI DASHAD KOTHI VANOGI		
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	PRADIP KUM AR	PURN PRAKASH S/O T HAKAR DAS	FATI DASHAD		
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	FATA RAM	NAGENU RAM S/O THOLU RAM	FATI DASHAD		
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	SMT. SAMUDRI DEVI W/O	DASANTE SINGH S/O MAAN SINGH	FATI DIJI, TEHSIL VANJARA		
FATI SHAINSHAR KOTI SHAINSHAR	718 MIN	CHET RAM	SANGAT RAM S/O KALI RAM	FATI RAILI KOTHI MALAN	2970 4	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	735 MIN	BANWARI LAL	KANSHI RAM S/O PARIDUTT	FATI DASHAD KOTHI VANOGI	2966/3/1 1	HOMESTEADS/ SHED
FATI SHAINSHAR KOTI SHAINSHAR	735 MIN	KRISHNA KUMAR @ KISHOR	KANSHI RAM S/O PARIDUTT	FATI DASHAD KOTHI VANOGI	2966/4/1 5	HOMESTEADS/ SHED