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CATCHMENT AREA TREATMENT PLAN

**RAMPUR HYDRO ELECTRIC PROJECT
(RHEP)**

DISTRICT SHIMLA (HIMACHAL PRADESH)



PLAN PERIOD :- 2006-07 TO 2015-2016
TOTAL COST :- Rs. 23,37,94,000/-

JULY, 2005
AMENDED (NOVEMBER, 2005)

**CAT PLAN DIVISION, NICHAR
FOREST DEPARTMENT,
GOVERNMENT OF HIMACHAL PRADESH**

FOREWORD

Global environmental changes which a few years back appeared quite distant has suddenly become a stark reality with all its attendant consequences. This is only a beginning and unless effective remedial measures are taken, these changes will assume even more dramatic proportions in the years to come. It is now increasingly evident that environmental problems are closely linked to developmental concerns. It is imperative that environmental preservation and development go ahead in a symbiotic manner. In the context of hydroelectric projects this becomes even more important as the very viability of these projects depend upon clean and regular flow of water in the rivers. While it is true that there are a host of other issues which impact the environment, the role of catchment treatment has assumed greater significance not only from the point of view of environmental concerns but also from the user agency's perspective. Increasing silt load in the river waters has put a question mark on the very viability of several Hydroelectric Projects and has brought in sharp focus the need for effective treatment of catchment areas to keep the silt load factor within manageable limits. Recent experience with Satluj river has struck home this point even more forcefully. The nascent concept of CAT Plans conceived in the early nineties has now come to be accepted as an essential feature of any Hydroelectric Project. There has now been a growing awareness amongst the Project authorities also that they can not ignore this important aspect anymore. The initial reluctance of the project authorities to commit funds for CAT Plans, which was considered as a non-essential activity, totally unconnected with the project has now given way to more realistic appreciation of the need for catchment protection which is a healthy sign for the future.

The Hydropower potential of Upper Satluj valley is being harnessed expeditiously and a number of Hydro- Electric projects are either already in operation or are in the pipe line. The government of Himachal Pradesh realizing the need to co-ordinate and evolve strategies for natural resource conservation, watershed management and catchment treatment in this ecologically sensitive and geologically fragile region, has constituted Upper Satluj Valley Watershed Development Society to prepare and implement CAT Plans of Hydro- Electric projects in Upper Satluj Basin.

Having gained considerable experience with the in-house formulation of NJPC, BASPA and Kashang projects, Forest Department is now ideally placed to formulate the CAT Plans of Hydroelectric projects in the region. Appreciating this fact, the formulation of CAT Plan of Rampur Hydroelectric Project was entrusted to Forest Department by SJVNL authorities. The present plan is the result of painstaking efforts of Sh. C.M. Sharma D.F.O. CAT Plan Division Nichar who was assigned this job.

I hope this Cat Plan will be an effective tool for the environmental management in the project area and will achieve the objectives set out for it.

(Dr. V.R.R. Singh), IFS
Conservator of Forests
Rampur Circle, Rampur

P R E F A C E

The need for catchment area treatment has assumed greater significance during the recent years. In the context of Hydroelectric projects, where silt management in the water is of prime importance for the efficient and smooth functioning of the project, this need can not be over emphasized. Thus it is essential that not only intensive efforts are made to protect and improve the forests in the catchment, but also there should be a judicious, reasonable and planned use of forests and other natural resources in the area. This calls for a multi-dimensional approach towards catchment treatment as there are several other factors outside the forestry domain which have significant impact on the catchment stability.

In the present Plan an effort has been made to identify such issues and design appropriate interventions to have an ameliorating impact on catchment. Lessons learnt during the implementation of NJPC CAT Plan during the last three years of its implementation have also been built into the design of present Plan. In this endeavor considerable field surveys and data collection was involved for which I would like to express my thanks for the staff of Rampur and Ani Forest Divisions who completed this task in a short span of time. During the formulation process, various public representatives of the area were also consulted and every possible effort has been made to include their concerns in the CAT Plan so far as they are compatible with the overall objectives of the Plan.

I am thankful to SJVNL authorities especially Sh. V.K.Sharma, General Manager RHEP and Sh. S.K. Sharma, Sr. Manager RHEP for providing logistic support for preparation of this CAT Plan. My thanks are also due to Sh. Yogesh Verma, DFO Ani, for co-ordinating and facilitating data collection and field inspections in Ani Division.

I would like to place on record my sincerest thanks to Sh. Anil Vaidya, D.F.O. Rampur who has not only charted the entire process of this CAT Plan formulation but has also given his valuable inputs at every step of the Plan.

I am especially thankful to Dr. V.R.R. Singh Conservator of Forests, Rampur, for his constant guidance and valuable suggestions to prepare this Plan in its present shape.

I am also grateful to Sh. R.A. Singh Pr. Chief Conservator Of Forests (H.P.) and Sh. B.D. Suyal, Conservator of Forests (P&L) Shimla for their guidance and support.

I sincerely hope that this CAT Plan will achieve the objectives laid down for it and will usher in a new era of catchment protection in the region.

Rampur
July 18, 2005

(C.M. Sharma), HPFS,
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INTRODUCTION

Himachal means "ABODE OF SNOW" and the entire state is composed of mountainous terrain, beginning from the Shivalik foothills and reaching up to trans Himalayan heights of zaskar range. Himalayas are the most recent mountain system, which still have to find its final form. The eco-system, biodiversity, water and resource system of these mountains are very fragile. The Himalayas in general and Himachal Pradesh in particular with its five river basins provide an ample scope for development of hydropower potential. River Satluj is a major river of Western Himalayas, originating from lake Mansarover in Tibet at an altitude of 4570 Mtr. After traversing a distance of 320 km in Tibet, it enters India near Shipki-la.

Out of the five river basins in HP, Satluj basin has the highest potential of about 9227 MW of electricity. To harness this vast potential, several hydroelectric projects on river Satluj and its tributaries have been identified.

Like many other developmental activities, these projects, while providing planned benefits, could also lead to a variety of adverse environmental impacts; hence it is essential to have proper management of its environment so as to maintain ecological balance in the tract. It is imperative that the stresses on natural resources remain within the carrying capacity and the projects could be constructed and operated without any significant environmental degradation. Beside this, it is equally important that the sediment load in the river Satluj does not increase due to construction and operation of the project or due to other disturbances in the catchment and the reservoir life remains at least to the extent envisaged in the design. Over much of the catchments area of these projects, conditions are not very conducive to vegetative growth. Moreover the tract is prone to soil erosion and landslides. This makes the task of catchment treatment quite difficult and expensive. Total catchment of Satluj river upstream of Nathpa Dam is 49820 Sq. Km. out of this 36900 Sq. Km. is in Tibet and the remaining 12920 Sq. Km. is in India. Theoretically, the whole catchment upstream of any project should be treated to have a lasting impact on the quality and quantity of the water in the river. But in this case 74.06% of the catchment is in Tibet over which treatment measures are not possible. Even the remaining 12920 Sq. Km. catchment within the Indian territory is too large an area to be treated by a single project as a cost of treatment of such large area will be quite prohibitive. To burden a single project with responsibility and cost of treatment of this entire catchment will not be a practical proposition, since several different projects have been planned all along the various stretches of river Satluj, it will be prudent to divide the catchment treatment amongst these projects. Thus in this CAT Plan only the area downstream of Jhakri upto catchment of Kurpan and Machada Khads on the both banks of river Satluj as also the 15/20 area of the Shimla Distt. has been included. The catchment upstream of this area upto Karchham is already being treated in the NJPC CAT Plan and catchment beyond Karchham is purposed to be treated under the CAT Plan of other Hydro Electric Projects which are in the pipe line.

CAT PLANS OF HYDRO - ELECTRIC PROJECT IN SATLUJ VALLEY

For effective implementation and co-ordination of the CAT PLAN works of various upcoming projects in Satluj Catchment, Govt. of HP has constituted an **UPPER SATLUJ VALLEY WATERSHED DEVELOPMENT SOCIETY** in the year 2002-03 vide its notification no. *FFEB (F) 2-73/97* dated 23-10-2002 with its Headquarter at Rampur. The CAT Plans in

respect of following projects have already been formulated :-

1 NATHPA-JHAKRI HYDRO ELECTRIC PROJECT

It involves diversion of 117.9956 hac of Forest land for the construction of Nathpa Jhakri Power project which has now been completed. It is a mega hydroelectric project located in district Shimla & Kinnuar of Himachal Pradesh. The project envisages harnessing 1500mw of hydroelectric potential of river Satluj.

The Cat plans of Rs. **29.57 crore** has been prepared by the Forest Department for NJPC. The Cat plan is under implementation.

2. BASPA HYDROELECTRIC PROJECT

The BASPA II hydroelectric project of JP Hydro Ltd. has been constructed in Baspa (tributary of river Satluj River) Catchment of Kinnuar District. The project envisages harnessing 300 mw of hydroelectric potential. The project involves diversion of 44.1795 hac. (8.11.1993) of Forest land for Baspa Hydro Electric project stage-II in Distt. Kinnuar (H.P).

CAT PLAN of Rs. **20.10 crore** have been prepared by the forest department for JPHL. The Cat Plan is under implementation by Forest Department.

3. KASHANG HYDRO ELECTRIC PROJECT

The Kashang hydel project of HPSEB is to be constructed on the Kashang Khad (tributary of Satluj River). It has proposed capacity of 66MW. The Govt. of India, MOEF has accorded final approval vide letter No. 8-8/2001-FC dated 26.06.2004 for diversion of 18-71-42 hac. Forest land has been prepared for the construction of Kashang Hydel Project. The catchment area of the Kashang Khad is 231sq.KMs. The total catchment area up to the Dam site is 133 Sq. Kms. Out of this area, about 98 Sq. is above 4200 Meters above the sea level and remains under permanent snow. The catchment areas above the Dam site comprise mostly steep mountains. There is a small area under the vegetation cover in the catchment above dam site. There is no permanent habitation in the catchment area. However the residents of Pangi Village migrate during summer to the catchment for summer grazing and cultivation as well.

*CAT Plan of Rs. **3.03 crore** has been prepared by the Forest Department to be spent on various activities in the catchment.*

4. KARCHAM WANGTOO HYDRO ELECTRIC PROJECT

The Karcham Wangtoo project of JP Hydro LTD is proposed in Kinnuar District. It has a proposed capacity of 1000 MW. The proposal for division of 167-42-47 hac. Forest land has been prepared for the construction of Karcham Wangtoo HEP and Govt. of India, MOEF has given in principal approval vide letter no. 8-5/02-FC dated 21-11-2002.

*CAT Plan of Rs. **31.94 crore** has been prepared by National Environmental Engineering Research Institute, Nehru Marg, Nagpur to be spent on various activities in the catchments.*

Thus so far these four CAT plans amounting to a total outlay of Rs. **85 crore** have been prepared in the Upper Satluj valley for the various hydroelectric projects.

The proposed **Rampur HEP** is located near Rampur in Shimla Distt. of H.P. about 115Km from Shimla town and is conceived as a tailrace development of 1500 MW Nathpa Jhakri HEP to tap the hydropower potential of river Satluj between Jhakri & Bail village the former being about 12 Kms upstream of Rampur town of the left bank and the latter being about 15 Km d/s of Rampur town on the right bank of the river.

The project area falls in between latitude 77° 35' N to 43' N and longitude 31° 23'E to 31° 30' East.

The water coming out from the Power house of Nathpa Jhakri HEP after generation is diverted from tailrace outfall arrangement to 10.5 m dia HRT through Rampur Intake structure. The Rampur intake / outfall arrangement for Nathpa Jhakri is located at village Jhakri in Distt. Shimla of HP. The HRT is about 14.5 Km long. The power house is located on right bank of river Satluj near village Bail which is about 15 Km. from Rampur town. The project is planned to generate 434 MW of power.

For the execution of this project the **SATLUJ JAL VIDYUT NIGAM LTD.** is seeking approval for diversion **69-38-05 hac of Forest land and 28-56-72 hac of private land.** Like many other developmental activities, this project, while providing planned benefits, could also lead to a variety of adverse environmental impacts. Hence it is essential to have proper management of its environment so as to maintain ecological balance in the tract. It is imperative that the stress on natural resources remains within the carrying capacity and the project could be constructed and operated without any significant environmental degradation. Besides this, it is equally important that the sediment load in the river Satluj does not increase due to disturbances in its catchment or due to construction and operation of the project and the reservoir life remains at least to the extent envisaged in the design.

With the increase in population in the catchments area, pressure on forests has increased manifolds. Similarly, cattle population has also increased considerably and has affected the grazing grounds and forests badly. Vast forest areas are being degraded due to excessive exercise of rights by local people for meeting demands of fuel wood and timber and due to many developmental activities like road construction etc. Improper land use and water management are also the factors responsible for denudation. This is leading to breakdown of the long held natural equilibrium of the fragile mountain ecosystem.

The CAT PLAN aims to increase the scope of activities as also to address a host of other issues like damage to rural infrastructure, changes in drainage pattern, increased pressure on natural resources, impact on wild life, and damage to visual aesthetics of the area. It is hoped that this CAT Plan will be able to address these issues so that the adverse impacts are mitigated to the extent possible to the benefit of project as also the environment.

Though the various components proposed in the CAT Plan are likely to arrest further increase in the silt load factor significantly, there is no guarantee for reduction in silt load factor in future because of the factors mentioned below, over which the measures proposed in the CAT Plan have no effect, may lead to an increase in the silt load in future :-

- a) The total catchment of Satluj river, above Bhakra dam site is about 56,875 Sq. Km, upstream of the dam at Nathpa is 49,820 Sq. Km. out of which 36,900 Sq. Km. falls Tibet(74%) and 12920 sq. Km. (26%) in India. The catchment area up to Rampur is 50,880 Sq. Km. The area covered in the Cat Plan is only 1,062.50 Sq Km. Out of this 612.50 Sq Km. falls in Rampur Forest Division and 450 Sq.km in Ani Forest Division.

Therefore, the silt generated further upstream of the CAT Plan area, which are not presently covered under any CAT Plan, might lead to an increase in silt load.

- b) Various natural and man-made factors upstream of Nathpa like road construction activity, glacial, flash floods, new hydro electric project installed in future and other developmental activities which are beyond the purview of this CAT Plan will also lead to an increased silt generation
- c) The flood expected from breach of Parachu Lake formed by blockade of Parachu river course by massive rock fall (on July 7-8,2004) about 60 Km. upstream Sumdho in Kinnaur Distt. could be even higher which will also lead to heavy devastation and increased silt generation.

However, the positive effects of the works undertaken under the CAT Plan are likely to be visible after about 6 -7 years. It is expected that this CAT Plan will be able to address these issues so that the adverse impacts are mitigated to the best extent possible.

CHAPTER-I

SCOPE OF THE CAT PLAN

1.1. INTRODUCTION

Proper utilization of natural resources is central to the steady progress of a country like India. Problems of scarcity of resources and associated degradation of the environment are common all through the country. It is the severity of such problems and the consequences, which vary from one region to the other depending upon the physical, biological and socio-economic attributes. In view of this variability, resource analysis at local, regional and national level becomes equally important. Himalayan region deserves special attention because of extreme physical constraints for production oriented land uses, poor communication, strong dependence of hill people on the natural resources and significant influence of the Himalayas on the adjacent Indo-Gangetic plains.

Relevant information on quality and quantity of natural resources thus becomes basic to development planning. Amongst a variety of natural resources, soil losses are the first and the foremost problem in the Himalayas, which causes siltation problems in the plains and cause reservoir sedimentation. The loss of productive substrata is both due to direct human development actions and indirect ecosystem changes. The direct human development action pertains to cultivation and development activities like road construction. The indirect human induced eco-system changes like change in land use, excessive use of natural resources over the limits prescribed are causing erosive forces to erode most of the productive soil from the already depleted system.

The Rampur Hydro Electric Project with an installed capacity of 434 MW is being constructed on the left bank of the river Satluj which is a tail development of Nathpa Jhakri HEP. The river Satluj originates from lake Mansarovar in Tibet and after traversing 320 Kms. in Tibet, it enters India at Shipki-la. Satluj River is one of the principal rivers of Himachal Pradesh and it divides the District Kinnaur into two parts. In its passage through distt. Kinnaur, the Satluj River crosses three more or less parallel mountain ranges: - The Zaskar Mountain, The Great Himalayas and the Dhauladhar Ranges. Between three mountain ranges lie the subsidiary valleys of varying dimensions, from the narrow glens and ravines of Tidong and Kirang Streams to the sizeable valleys of Spiti and Baspa Rivers. The significant tributaries, streams and rivers that flow into the Satluj River from south or along its left bank are successively the Hogis, Gyamthing, Tidong, Baspa, Dulling, Sholding, Mangled etc. Likewise those entering from the north or its right bank are the Spiti River, Ropa, Kirang, Kashang, Pangi, Choling, Bhaba, Sorang, Kut, Ghanwi Khad & Suga Khad. In between there are many seasonal streams that meet the Satluj River and its tributaries. At Khab it receives the Spiti River where the bed of the stream is about 2544 meters (\pm) above the mean sea level. With most of the major streams in the area, the tract is affected by the passage of river, which leads to formation of small reservoirs. The boulders, rocks etc. blocking the river passage ultimately give way under the water pressure, leading to destruction of life and property in the downstream stretch.

1.2. PERIOD OF THE PLAN

The CAT PLAN has been formulated for the period of 10 years starting from 2006-07 to 2015-16. 2005-06 will be the zero year of the plan in which emphasis will be given

to develop and maintain the nurseries to raise sufficient planting stock for the plantation to be tackled in the CAT PLAN area as per detail given in the plan.

1.3. COST OF THE PLAN

The total out lay envisaged for the implementation of this Plan is **Rs. 23,37,94,000/-** only. This costing is based on the basic wage rate of Rs.70/- For further cost escalation on account of increase of wage rate beyond Rs. 70/-, provision has been made under contingency to meet up this further increase. However, if the cost rises even beyond this 10% contingency, then the additional liability on this account has to be met up by the user agency.

Chapter II GENERAL DESCRIPTION OF THE TRACT

2.1 NAME AND LOCATION

This report deals with the catchment area treatment for the Rampur Hydro Project in District Shimla, H.P. The project area of Rampur H.E.P. falls in between longitude 77° 35' N to 70° 43' N and latitude 31° 23' E to 31° 30' E. The catchment area of the Rampur HEP includes Rampur Range, Bahli Range, Machhada catchment of Nankhari Range and parts of Sarahan Range viz (Two Blocks of 15/20 i.e. Phancha & Jhagori, Bhagawat Beat of Sarahan Block) in Rampur Forest Division and Nirmand Range, Nither & Margi Block of Nither Range in Ani Forest Division. The Catchment area taken up for treatment under this CAT Plan falls between longitude 77° 30' to 77° 57' and latitude at the 31° 20' to 31° 43'. The area included in the plan has got relatively better climatic conditions, experiences more rainfall and also bears better vegetation than the adjoining areas further upstream in the region which have relatively harsh climatic conditions. Some part of area experiences snow fall during winter. The detailed break up of the forest area of Rampur and Ani Forest division included in the plan is given as under :

Name of Distt.	DPF Area (in Ha.)	UPF Area (in Ha.)	Other Govt. Land (in Ha.)	Agriculture Land (in Ha.)	Pasture Land (in Ha.)	Total Land (in Ha.)
Shimla	14737.01	16562.65	10532.25	7560.90	562.90	49955.71
Kullu	13774.80	16212.49	3252.12	4618.90	2637.63	40495.94

2.2 SITUATION

Total geographical area of Rampur Forest Division of Distt. Shimla is 102400 Hac. (1024Km²) and the area of Outer Seraj Ani Forest Division of Distt. Kullu is about 71,520 Hac. (715Km²). The area included in the CAT PLAN falls in the Rampur Civil Sub-Division of Distt. Shimla and Ani Civil Sub-Division of Distt. Kullu respectively.

The following 31 No. Panchayats of Rampur Forest Division are covered under the plan:

Koot, Kao, Chandi Branda, Phancha, Sarpara, Racholi, Shingla, Dansa, Lalsa, Deothi, Munish, Kashapat, Darkali, Tecklech, Badawli, Bahali, Narain, Devnagar, Duttnagar, Daleth, Barach, Kungal-Balti, Brog, Chakti, Khamadi, Karangal, Thali, Tipper Majholi, Thana Nankhari, Sholi, Kaleda Majhavti.

The following 25 No. Panchayats of Ani Forest Division are covered under the plan:

Sarga, Kushwa, Kharga, Tunan, Nishani, Arsu, Bari, Kot, Chail, Deem, Poshana, Sarahan, Gadej, Bawa, Bhalsi, Nirmand, Durah, Lote, Rahnu, Gamog, Shilli, Nither, Dehra, Ghattu and Nore

In addition to above, following Panchayats of Rampur Forest Division (Manglad Catchment) the area of which were not included in the NJPC CAT PLAN will also be covered in the plan: -

1. Kinoo
2. Dofda

2.3. TOPOGRAPHY AND DRAINAGE

The terrain of the catchment area is mainly mountainous. The slopes are moderate to steep with precipitous slopes. The whole area drains into the river Satluj. The principal tributaries of the river Satluj below Jhakri are Browni Khad, Nogli Khad, Machhada Khad on the left bank and on the right bank the main tributaries are Suga-Cho, Kazo Khad and Kurpan Khad. In addition to these, several small Nallas also drain into the river Satluj below Jhakri.

The fall of the Satluj from its source to the plains of India is uniform. The height of the bed is about 4,570m near Raks Tai, 915m at Rampur, 460m at Bilaspur and 350m at Bhakra Dam site.

2.4. GEOLOGY AND ROCK

The tract lies in the Western Himalayas. The main rock types are Micaceous, Schist and Chozitite Schist with Gneiss, Granite, Phyllites, Slates, Shales, Dolomite, Limestones and Quartzite. The rock types of Nogli valley is quartzite. Between Bahii and Surad rock is Gneiss with large white rhomboid, Crystals of feldspar. The Geology, rock and soil affect the vegetation of a place by influencing the moisture regime, texture and drainage of the soil. The known geological formation in the area are as follows:

- i) Pre-Cambrian-schist's gneiss's, grains, and quartzites.
- ii) Late Pre-Cambrian Himanta system-phyllites, quartzite's, conlomerates, shales and states.
- iii) Silurian-Karol limestone Quartzite.
- iv) Carboniferous-Quartzite's slate dolomite limestone.

The soil is sandy to sandy loam with fragile strata which leads to serious problem of landslides and erosion. Generally speaking the soil is shallow, especially on the steep precipitous slopes which are almost devoid of any kind of soil.

2.5. METEOROLOGY

2.5.1 CLIMATE

The climate is generally temperate but due to large variation in altitude, the climate at the base of Satluj valley is more of sub tropical nature and towards the upper reaches of the tract, the climate is more or less alpine. Semi-arctic conditions also prevail in some portions. March to April and Oct. to November are cool and bright. The area under the plan is endowed with four distinct season i.e. severe cold Winter (December to February), pleasant summer (April to June), Monsoons (July to mid-September), Autumn (Mid-September to November). The spring seasons lasts from Feb. to April in the lower valley along the river where as on the higher altitudes it is in the month of April to June. Generally April to June and Oct. to December are dry months. The major precipitation is received in the month of July and August in the shape of Monsoon rains whereas some precipitation in the form of winter rains and snow is received during the month of Jan. to March. Snowfalls occurs above 1600m but some time goes down to 900 meters, the snow seldom lies for long period below 2200 meter.

The climate of Satluj valley shows a gradual alteration from heavy monsoon of the outer Himalaya to the arid Tibetan type with a winter snowfall and practically no summer rains. The monsoon clouds advancing from the plains of India are combed out by the outer

ranges of the hills, where most of the monsoon rains fall, so that the inner valley get a good deal of cloud but no steady precipitation during the monsoon months. The Himalayan valleys which open up due to south towards the plains form pathway to which the monsoon clouds are swept, but the Satluj valley lying east and west is badly placed for rainfall and further local aridity is caused by storm clouds being checked in their progress up the valley by the many spurs which jut into the valley. This local aridity is increased by the heating up of the enormous stretches of bare cliffs, making up the deep narrow gorge absolutely stifling under the summer sun. This in turn gives rise to a hot drying local wind, which beats up and down the main valley with great regularity. Thus, Rampur at 3,000 feet elevation in the bottom of the gorge has rainfall of about 800 mm, while Kotgarh at 8,000 feet almost in the same sector of valley receives 1150 mm.

2.5.2. TEMPERATURE

Due to great variation in altitude the temperature also varies considerably. Minimum temperature goes down to 0° C during winter and Maximum temperature may touch 40° C in the lower areas during summer. The temperature generally rises from March till June, which is the hottest, where the max. to min. temperature rangers between 40° to 16° C. The summer in general is mild and pleasant. The onset of rainy season brings down the temperature.

The temperature and rainfall data recorded in Rampur Station is given as under:

MONTHLY RAINFALL IN RAMPUR Rainfall in mm

Year	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept.	Oct.	Nov	Dec.	Total
1999	78.9	19.9	5.4	0	31.4	19.6	185	60.9	18.5	0	0	5.2	424.8
2000	0	0	0	0	0	244.8	337.9	21.3	12.1	0	0	0	616.2
2001	20	40	105	34	103	113.9	60	123.1	60	0	16	41	716
2002	61.5	142	93	104	13	45	10	152	104	0	0	1	725.5
2003	55	110	60	61	11	41.5	264	132	107	0	4	41	886.5
2004	67	4	0	69	57	114	93	244.5	24	81	2	6	761.5

TOTAL RAINY DAYS IN RAMPUR

Year	Jan	Feb	Mar	Apr	May	June	July	Aug.	Sept.	Oct.	Nov	Dec.	Total
1999	7	2	1	0	7	3	11	9	4	0	0	2	46
2000	0	0	0	0	0	7	17	4	2	0	0	0	30
2001	1	5	6	5	9	10	12	11	2	0	1	4	66
2002	7	10	5	5	4	5	5	12	7	0	0	1	61
2003	4	6	5	3	3	7	16	14	12	0	1	3	74
2004	6	1	0	4	2	6	9	14	4	4	1	2	53

Temperature Data from 1984 to 1994 of Rampur in C°

Year	Max	Jan	Feb	March	April	May	June	July	August	Sept	Oct	Nov	Dec
1984	Max	16.94	17.23	26.5	36.71	33.81	33.81	32.88	33.1	30.58	29.87	22.86	19.08
	Min	3.67	4.53	11.3	4.86	19.92	24.72	22.25	23.35	18.96	15.01	8.81	6.01
	Max	16.01	21.94	27.48	28.96	34.18	35.51	33.23	30.67	28.11	26.96	22.83	18.74
1985	Min	5.33	6.15	12.54	14.94	19.46	21.88	22.5	22.38	9.38	13.76	8.33	6
	Max	18.13	18.56	21.78	27.53	30.46	33.11	30.35	30.78	31.29	27.43	23.66	17.75
1986	Min	4.44	6.38	9.47	13.67	15.8	20.57	21.53	21.82	19.61	13.11	9.12	5.67
	Max	19.01	20.19	23	28.92	27.28	34.86	N.A	33.7	33.38	29.81	26.22	21.84
1987	Min	4.97	7.31	9.94	13.97	14.51	20.29	N.A	22.84	20.08	14.26	9.01	5.8
	Max	19.01	22.41	22.24	31.53	35.22	35.44	31.05	30.41	30.81	29.62	24.85	18.93
1988	Min	5.87	7.87	9.03	15.58	18.67	21.29	22.36	21.17	18.55	12.41	8.11	6.85
	Max	16.84	19.32	23.56	30.01	33.18	33.31	32.19	31.39	31.97	29.48	23.48	17.75
1989	Min	3.58	6.2	8.99	12.47	17.38	20.16	22.59	20.98	18.96	13.85	8.53	5.5
	Max	20	17.46	30.08	28.24	31.97	34.66	30.53	31.72	30.68	28.56	25.51	19.58
1990	Min	6.21	6.52	7.52	12.38	18.13	21.33	N.A	21.72	19.81	12.84	8.81	5.75
	Max	19.26	10.04	23.4	27.07	33.1	34.18	35.34	31.39	31.68	29.73	23.74	19.26
1991	Min	2.47	6.42	9.28	11.87	16.73	20.62	23.67	22.02	20.48	13.9	8.42	5.44
	Max	17.25	18.96	21.39	28.94	32.11	35.11	31.61	30.98	30.75	28.24	23.77	0.66
1992	Min	5.66	5.42	9.87	14.18	16.05	20.31	21.45	21.98	19.59	13.65	9.68	5.39
	Max	15.82	20.77	21.39	29.4	34.46	33.85	34.64	28.01	31.63	24.03	22.68	18.45
1993	Min	4.64	7.36	8.13	13.01	17.77	22.88	22.5	17.31	14.62	7.49	8.11	5.5
	Max	18.27	18.86	27.74	26.35	32.65	35.96	32.29	31.16	30.88	28.96	25.2	18.96
1994	Min	5.3	5.21	9.36	11.87	16.81	21.7	22.24	21.89	18.27	13.18	8.46	5.86

2.5.3. Meteorological Conditions in the Project

Discharge observations are being carried out at Rampur since June 1963 (CA-50880 Sq. km). Precipitation contribution towards run-off from the intermediate catchment from Nathpa dam to Rampur varies significantly as compared to that in the catchment area upto diversion dam (viewed on annual basis). Flow ratio between Nathpa dam and Rampur as the ratio of annual total precipitation (catchment area X annual precipitation normal) would represent the reduction factor on annual basis for deriving discharge series at dam from that of Rampur. The reduction factor on annual basis works out to 0.94 (as compared to CA ratio of 0.98) as under:

Annual total precipitation at Nathpa dam "A" normal	=	CA x annual rainfall
	=	49820 x 435
Annual total precipitation at Rampur "B" A/B	=	50880 x 453
	=	0.94

It is observed that during non-monsoon period from October to May, precipitation pattern is almost uniform and the stream - flow is mostly due to snow melt and hence the reduction factor as 0.98 i.e. proportionate to CA is being considered. Annual reduction factor being 0.94, reduction factor for monsoon period i.e. from June to Sept., thus, would work out as 0.86 since the rainfall contribution during monsoon months from intermediate catchment is significantly high. With these conversion factors ten daily flow series at Nathpa dam site have been developed from June, 1963 to May, 2004.

The meteorological conditions have been summarized in the above table. The rainfall varies a lot in the area and it reduces sharply as one move upstream in the catchment.

2.6. WATER SUPPLY

The whole tract is covered with a large number of tributaries feeding the Satluj River in the catchment area. The main perennial tributaries are Suga Chho Khad, Ganvi, Suru, Brauni, Manglad, Nogli, Machhada, Bhera, Sawera and Kurpan Khad. The flow of water is generally strong and results in a lot of erosion. The slopes being very steep, the in-situ conservation of moisture in the soil is poor. There is scarcity of water in Shattaldhar and Averi areas of Ani Division as also in Nog valley of Rampur Division. The main streams which are fed by melting snow do not dry up but the flow of water varies considerably during various seasons.

2.7. LAND USE PATTERN

No specific land use survey has been carried out in the catchment area. The land use as per the records available is tabulated here as under:-

Land use Pattern (Rampur Forest Division)									
Sr. No.	Name of Range	Name of Blocks	Name of Beat	D.P.F Area (in Hac.)	U.P.F Area (in Hac.)	Other Lands (in Hac.)	Agriculture Land (in Hac.)	Pasture Land (in Hac.)	Total Area (in Hac.)
1	2	3	4	5	6	7	8	9	10
1	Sarahan	Sarahan	Bhagawat	121.09	0	137	248	82	588.09
		Jaghori	Koot	1192.19	1219.06	110			2521.25
			Rawancha	270.13	0	312			582.13
			Jaghori	763.32	389.61	0			1152.93
			Phancha	720.36	98.07				818.43
			Sarpara	1027.65	114.21				1141.86
			Koabil	175.76	0	315			490.76
			Total Sarahan Range	4270.5	1820.95	874	248	82	7295.45
2	Rampur	Rampur	Rampur	0	0	509.79	329.07	6.00	844.86
		Nogli	Nogli	0	789.15	694	423.75	9	1915.9
			Duttanagar	0	569.02	771.83	420.04	20.50	1781.39
			Dansa	0	234.90	1484.1	1020	3	2742
		Deothi	Darshal	136.48	548.25	120	43	3	850.73
			Murish	503.00	571.88	473.12	301	100	1949
			Deothi	185.00	434.97	925.03	623	103	2271
			Kashapat	235.70	7015.63	1720	305	85	9361.33
			Total Rampur Range	1060.18	10163.8	6697.87	3464.86	329.50	21716.21
3	Bahli	Bahli	Bahli	151.86	445.09	768	628	33	2025.86
			Chouka	485.99	32.40	44.85	29	0.35	562.59
			Saran-Jari	1629.31	261.22	549	358	2.81	2799
			Total	2267.16	738.71	1361.85	1015	36.16	5417.45
		Taklech	Taklech	433.75	376.2	22.70	189	0.35	1022.00
			Darkali	1756.08	1994.2	326	216	2.00	4294
			Theda	1121.04	252.72	0	120.50	2.00	1496.26
			Total	3310.87	2623.12	348.70	525.5	4.35	6812.26
		Surd	Beunthal	873.17	370.15	223.75	193.50	26.40	1686.97
			Surd	351.09	185.08	287.92	465.50	17.50	1307.09
			Khamadi	430.1	59.94	75.16	358.54	11.99	935.73
			Total	1654.36	615.17	586.83	1017.54	55.89	3929.79
			Total Bahli Range	7232.39	3977.00	2297.38	2558.04	96.40	16161.21
4	Nankhari	Sholi	Delath	0.00	101.25	45.00	160.00	21.00	327.25
			Chakthi	271.35	272.73	65.00	218.00	20.00	847.08
			Sholi	239.04	20.65	125.00	294.00	14.00	692.69
			Total	510.39	394.63	235.00	672.00	55.00	1867.02
		Nankhari	Nankhari	381.49	0.00	47.00	164.00	0.00	592.49
			K/ Munder	609.92	72.49	110.00	122.00	0.00	914.41
			Bai Behal	672.14	133.78	271.00	332.00	0.00	1408.92
			Total	1663.55	206.27	428.00	618.00	0.00	2915.82
			Total Nankhari Range	2173.94	600.90	663.00	1290.00	55.00	4782.84
			Total Rampur Division	14737.01	16562.65	10532.25	7560.90	562.90	49955.71

Land use Pattern (Ani Forest Division)										
Sr. No.	Name of Range	Name of Blocks	Name of Beat	D.P.F Area (in Hac.)	U.P.F Area (in Hac.)	Other Lands (in Hac.)	Agriculture Land (in Hac.)	Pasture Land (in Hac.)	Total Area (in Hac.)	
1	2	3	4	5	6	7	8	9	10	
1	Arsu	Kharga	Sarga	1305.73	546.33	130	220	85	2287.06	
			Kindia	583.16	1244.22	109	179	72	2187.38	
			Kharga	1926.62	735.71	135	245	91	3133.33	
			Tunan	0	723.77	103	149	69.88	1045.65	
			Total	3815.51	3250.03	477	793	317.88	8653.42	
	Nirmand	Brow	0	788.48	140	230	95	1253.48		
		Averi	0	874.15	107	184	70	1235.15		
		Nirmand	0	343.97	150.26	242	100.17	836.4		
		Pujarli	151.75	128.47	113	194.44	75	662.66		
			Total	151.75	2135.07	510.26	850.44	340.17	3987.69	
	Arsu	Buini	Arsu	371.1	278.77	115.5	203.50	83	1051.87	
			Buini	0	242.81	112	191	69	614.81	
			Tharu	1601.61	784.11	106	171	75	2737.72	
			Palli	371.1	315.64	103	162	64	1015.74	
			Total	2343.81	1621.33	438.50	727.50	291	5420.14	
Sarahan	Shamani	Sarahan	1103.19	625.23	122.36	206.94	81.58	2139.3		
		Shamani	456.87	619.17	114	197	78	1465.04		
		Tharia	2966.03	433.13	108	173	72	3752.16		
		Juggi	895.58	1537.84	102	167	66	2768.42		
		Total	5421.67	3215.37	446.36	743.94	297.58	10124.92		
		Total Arsu Range	11732.74	10221.80	1870.12	3114.88	1246.63	28186.17		
2	Nither	Moin	Nither	0	562.45	166	190	178	1096.45	
			Nither	52.2	778.79	176	192	166	1364.99	
			Sarar	312.43	1226.95	172	182	180	2073.38	
			Koil	0	928.74	177	183	174	1462.74	
			Margi	Gattu	0	509.88	173	185	180	1047.88
			Margi I & II	638.19	453.25	171	195	170	1627.44	
			Katmor	610.27	866.95	174	180.02	172	2003.24	
			Nore	428.97	663.68	173	197	171	1633.65	
				Total:	2042.06	5990.69	1382	1504.02	1391	12309.77
				Total Ani Division	13774.80	16212.49	3252.12	4618.9	2637.63	40495.94

G.Total of Rampur & Ani Division : 28511.81 32775.14 13784.37 12179.80 3200.53 90451.65

As per above land use table, out of the 90451.65 ha. area included in this CAT Plan, 31.52% area are demarcated forests, 36.23% area undemarcated forests, 15.24% pasture land, 13.47% Agriculture and 3.54 % is other Govt. land. The area under DPF generally support good tree cover whereas in areas classified as UPF, tree cover is generally open. The land classified as other govt. land is mostly devoid of vegetation.

2.8. LIVE STOCK POPULATION

According to the data collected from the field and recent census report the break up of livestock population is as under:-

Live Stock Population							
District- Shimla							
Sr. No.	Name of Range	Name of Panchayat	Name of Village	Cattle Population			Total
				Cow	Ox	Sheep/Goat	
1	Sarahan	Kinoo	Dhauha (Bhawf.)	50	22	344	416
			Bari	46	16	227	289
			Pitwi	25	18	264	307
			Thada	26	14	226	266
			Kinoo	72	37	365	474
			Total	219	107	1426	1752
2	Rampur	M.C.Rampur	Rampur	12	4	0	16
			Total	12	4	0	16
	Racholi	Racholi	75	8	45	128	
		Khanari	78	12	105	195	
		Odda	65	22	96	183	
		Total	218	42	246	506	
	Singla	Singla	85	35	50	170	
		Shaneri	35	16	18	69	
		Uru	70	30	30	130	
		Kalna	12	3	0	15	
		besri	28	12	40	80	
		khakrola	15	4	0	19	
		Batuna	22	8	10	40	
		Total	267	108	148	523	
	Bharawali	Kumsu	95	62	117	274	
		Kamlahe	73	51	92	216	
		Rajpura	55	38	38	131	
		Masarna	77	43	41	161	
		Total	300	194	288	782	
	Duttanagar	Bhadrash	61	24	98	183	
		Duttanagar	42	6	0	48	
		Total	103	30	98	231	
Laisa	Laisa	105	12	141	258		
	Nalakhobar	10	3	5	18		
	Darshal	31	23	115	169		
	Total	146	38	261	445		
Dansa	Makrol	13	4	56	73		
	Karali	64	12	17	93		
	Thana	23	6	13	42		
	Jaguni	142	24	175	341		
	Dhar	37	2	66	105		
	Dansa	92	20	109	221		
Total	371	68	436	875			
Munish	Munish	110	130	1000	1240		
	Jogni/Ruhan	100	60	426	586		
	Barkal/Jhanthal	40	30	150	220		
	Mataina	0	0	0	0		
	Thala	80	62	400	542		
	Bhal	80	70	520	670		
	Urman	52	30	225	307		
Total	462	382	2721	3565			
Kuhai	Chiksa	64	52	125	241		
	Kuhai/Pataina	102	71	225	398		
	Majhol	69	40	90	199		
	Keem	29	18	555	602		
	Deothi	48	38	290	374		
	Prog	38	17	195	250		
	Kareri	32	13	265	310		
	Anu Rakshi	20	9	230	259		
	Total	400	258	1975	2633		

	Kashapat	Kandi	120	50	702	872	
		Pal	250	130	656	1036	
		Kasha	305	198	1395	1898	
		Total	675	376	2753	3804	
	Total of Rampur Range		2954	1500	8926	13380	
3	Bahli	Bahli	Nehra	250	245	512	1007
			Bhamraia	32	50	180	262
			Pulzara	161	138	294	593
			Pal	27	44	140	211
			Bahali	241	233	492	966
			Total	711	710	1618	3039
		Narain	Sharan-Jarashi	210	115	263	588
			Krali-Brandali	171	149	180	500
			Karsholi	41	25	213	279
			Mandhog	86	74	478	638
			Jakdhar-Sowali	0	0	0	0
			Kurnu	100	95	117	312
			Pelan	70	50	121	241
			Total	678	508	1372	2558
		Dev Nagar	Khaneoli	264	207	296	767
			Neri	78	57	205	340
			Dev Nagar	180	195	466	841
			Thali	78	32	220	330
			Sobli	105	85	158	348
			Total	705	576	1345	2626
		KaledaMaiheoti	Majheoti	20	40	100	160
			Beunthal	80	120	250	450
			Phola	20	36	84	140
			Ghat	30	25	90	145
			Kaled-Arli	100	150	191	441
			Total	250	371	715	1336
		Majholi-Tipper	Kandreri	62	40	461	563
			Surad	90	50	180	320
			Mandoli	15	30	65	110
			Majholi	20	20	110	150
			Total	187	140	816	1143
		Khamadi	Karoli	40	20	150	210
			Dhrunja	25	22	50	97
			Chamada	15	10	25	50
			Dhansha	15	30	52	97
			Khamadi	70	50	150	270
			Total	165	132	427	724
		Taklech	Taklech, Ketu, syaria	30	16	80	126
			Seri-Majhali, Khincha-Nalog	45	42	190	277
			Theda, Choka Baltidhar	18	14	85	117
			Charkari, darmali	25	18	60	103
			Khamotu	20	12	80	112
			Bhata Nawal				124
			Barshol	20	12	92	
			Darshal	10	12	55	77
			Total	168	126	642	936
		Darkali	Marala	45	48	850	943
			Darkali	63	67	750	880
			Radoli	40	62	90	192
			Sharnal	25	35	275	335
			Kukhi	35	42	449	526
			Total	208	254	2414	2876
	Total of Bahli Range		3072	2817	9349	15238	

4	Nankhari	Duttanagar	Sharan	20	8	12	40
			Dol	60	22	36	118
			Total	80	30	48	158
		Brach	Kalanti	12	10	32	54
			Nawan	26	16	33	75
			Lellon	107	80	35	222
			Total	145	106	100	351
		Chakti	Dadara	65	16	46	127
			Thaily	52	12	25	89
			Chakti	46	18	40	104
			Jhinjoo	18	6	24	48
			Shorog	15	8	28	51
			Total	196	60	163	419
		Sholi	Sholi	63	58	216	337
			Kareli	6	8	20	34
			Dharagla	21	14	39	74
			Khanog	21	15	30	66
			Radaina	18	16	14	48
			Garsu-Noti	45	25	45	115
			Louhti-Khadach	16	8	29	53
				Total	190	144	393
		Brog	Brog	25	15	27	67
			Shakis	55	60	85	200
			Punan	50	20	210	280
				Total	130	95	322
		Kungal Batti	Bahi	60	20	75	155
			Khauni	20	10	15	45
			Dogri	15	18	60	93
			Khamnaina	10	5	18	33
			Kungal	30	10	15	55
			Munder	25	20	45	90
			Mokrog	10	10	35	55
			Ropnai	15	5	17	37
			Gaglati	10	8	10	28
				Total	195	106	290
		Khamadi	Khamadi	50	15	60	125
			Deem	20	8	40	68
			Dhansha	25	10	25	60
			Dharunja	30	12	40	82
			Chamada	40	18	45	103
			Karoli	80	36	60	196
			Tangri	20	6	28	54
			Bai	45	16	50	111
			Total	310	121	368	799
		Total Nankhari Range		1246	662	1684	3592
		District- Kullu					
1	Arsu	Sarga	Bagani	21	20	71	112
			Badijan	30	20	93	143
			Humku	21	22	61	104
			Bahan	16	15	47	78
			Dhar	56	17	90	163
			Kailage	19	15	46	80
			Mohal	18	12	15	45
			Thaledhar	20	15	39	74
			Dhanikater	12	10	104	126
			Thach	56	37	15	108
			Sarga	25	21	42	88
			Shaogi	35	20	16	71
			Barguridhar	49	31	15	95
			Duglog	14	12	17	43
			Gad	15	7	95	117

The total Live Stock Population in the CAT Plan area as given in the above table is 70199 No. which works out to be 0.77 cattle density per ha. of the total CAT Plan area.

2.9. HUMAN POPULATION

According to the 2001 census the total population of the Shimla District was 7,22,502 and the Kullu District was 3,81,571. The low density of population is on account of the difficult hilly terrain and severe climatic conditions in the Distt.

The Distt.-wise and Tehsil-wise population as per 2001 census is as under:-

LEVEL	NAME	Total / Rural / Urban	Total		
			Population	Male	Female
DISTRICT	Shimla	Total	722502	380996	341506
		Rural	555269	285305	269964
		Urban	167233	95691	71542
TEHSIL	Rampur(T)	Total	72026	38688	33338
		Rural	66373	35383	30990
		Urban	5653	3305	2348
DISTRICT	KULLU	Total	381571	198016	183555
		Rural	351478	181131	170347
		Urban	30093	16885	13208
TEHSIL	ANI (ST)	Total	50476	25722	24754
		Rural	50476	25722	24754
		Urban	0	0	0
TEHSIL	Nirmand(T)	Total	47917	24583	23334
		Rural	47917	24583	23334
		Urban	0	0	0

The population of the villages falling in Rampur and Ani Forest division, which generally commensurate with the PLAN area as per 2001 census is as under:-

District Shimla Shimla

LEVEL	NAME	Total / Rural / Urban	Total		
			Population	Male	Female
DISTRICT	Shimla	Total	722502	380996	341506
		Rural	555269	285305	269964
		Urban	167233	95691	71542
TEHSIL	Rampur(T)	Total	72026	38688	33338
		Rural	66373	35383	30990
		Urban	5653	3305	2348
VILLAGE	Nanti (32)	Rural	149	67	82
	Tikar (33)	Rural	75	45	30
	Chandi (34/1)	Rural	144	69	75
	Khiuncha (41)	Rural	91	50	41
	Kinfi (49/3)	Rural	72	33	39
	Kut (43)	Rural	166	89	77
	Shamkor (34/3)	Rural	147	62	85
	Jaghor (34/2)	Rural	288	139	149
	Fancha (17/1)	Rural	267	127	140
	Fancha Kanda (17/2)	Rural	5	2	3

Suga (7)	Rural	257	125	132
Kandhar (8/2)	Rural	283	148	135
Sarpara (8/1)	Rural	573	297	276
Kandhri (15)	Rural	71	41	30
Pashgaon (12/2)	Rural	112	59	53
Dharla (12/1)	Rural	272	137	135
Molgi (11)	Rural	334	176	158
Julikot (9)	Rural	309	152	157
Labana - Sadana (10)	Rural	267	134	133
Ganwi (35)	Rural	984	520	464
Kiao (48)	Rural	596	307	289
Suru (49/1)	Rural	282	139	143
Pithawi (64)	Rural	358	161	197
Kinnu (66)	Rural	557	275	282
D.P.F. Sardhar (72)	Rural	6	1	5
Bhagaot (67)	Rural	454	220	234
Runpu (74)	Rural	270	148	122
Bajwa (76)	Rural	216	112	104
Daran (79)	Rural	310	153	157
Kuhl Patena (140)	Rural	840	432	408
Chiksa (130)	Rural	184	101	83
Majhali (129)	Rural	335	159	176
Sanathli (110)	Rural	155	83	72
Darshai (107)	Rural	189	98	91
Khaneri (106)	Rural	1038	555	483
Racholi (111)	Rural	915	484	431
Oda (113)	Rural	437	241	196
Karali (116)	Rural	379	175	204
Shaneri (117)	Rural	713	350	363
Shingla (118/1)	Rural	890	436	454
Uru (119)	Rural	220	112	108
Thana (115/1)	Rural	68	26	42
Kareri (115/2)	Rural	19	9	10
Jaguni (114/1)	Rural	706	331	375
Dhar (121)	Rural	306	143	163
Kalna (118/2)	Rural	382	196	186
Basari (120)	Rural	293	149	144
Dansa (122/1)	Rural	595	290	305
Makrholi (114/2)	Rural	196	94	102
Nala Khobar (122/2)	Rural	92	48	44
Ladsa (128)	Rural	1448	686	762
Khakhrola (123)	Rural	571	298	273
Kumsu (176)	Rural	937	495	442
Kamlahu (175)	Rural	438	230	208
Khanewali (181/1)	Rural	571	290	281
Nabri (181/2)	Rural	192	102	90
Datt Nagar (177/1)	Rural	1213	617	596
Bhadrash (177/2)	Rural	227	117	110
Narola (178/2)	Rural	88	51	37

Nirth (178/1)	Rural	748	395	353
Barkeli (180)	Rural	410	175	235
Chunja (179)	Rural	246	107	139
Doi (178/3)	Rural	437	212	225
Dawra (182)	Rural	492	244	248
Thali (183)	Rural	154	72	82
Shobli (184)	Rural	229	120	109
Bahli (185)	Rural	420	228	192
Rajpur (172)	Rural	114	57	57
Masarna Kareri (173)	Rural	337	160	177
Uppar Khanortu (166)	Rural	111	51	60
Khanortu (167)	Rural	39	19	20
Theda Chikhri (165)	Rural	274	131	143
Chauka (169)	Rural	89	46	43
Nahra (187)	Rural	861	424	437
Paljara (188/1)	Rural	608	309	299
Paie (188/2)	Rural	66	35	31
Bashri (193)	Rural	200	85	115
Dalog (192)	Rural	356	174	182
Mandhog (195)	Rural	457	243	214
Kurno (194)	Rural	293	147	146
Thanadhar (197/3)	Rural	89	41	48
Karsholi (196/2)	Rural	167	78	89
Jarasi (197/2)	Rural	174	90	84
Jangal Sharn Jarasi (198)	Rural	5	2	3
Sharn (197/1)	Rural	214	105	109
Barandli (196/1)	Rural	293	152	141
Bhata Newal (163)	Rural	125	69	56
Damrali (160/2)	Rural	93	54	39
Syarla Barshol (160/1)	Rural	710	394	316
Darshal (126)	Rural	287	146	141
Batheda (125)	Rural	80	38	42
Ruwan (124)	Rural	64	29	35
Kim (132)	Rural	628	294	334
Devthi (131/1)	Rural	793	413	380
Barkal (139)	Rural	103	55	48
Parog (131/2)	Rural	120	58	62
Karari (134)	Rural	245	130	115
Anurakshi (135)	Rural	236	109	127
Matiana (138)	Rural	82	43	39
Thala (137)	Rural	294	144	150
Bahli (136/1)	Rural	790	384	406
Munish (136/2)	Rural	398	196	202
Jangal Munish -Purvi (142)	Rural	19	10	9
Mandli (155)	Rural	52	27	25
Kukhi (153)	Rural	195	81	114
D.P.F. Kukhi -Darkali (152)	Rural	17	8	9
Seri Majhali (156)	Rural	341	161	180
Radoli Sharnali (151/2)	Rural	245	116	129

	Darkali (151/1)	Rural	423	227	196
	Puner (143)	Rural	17	7	10
	Pat (145)	Rural	590	297	293
	Kandi (146)	Rural	120	60	60
	Kasha (147)	Rural	626	318	308
TOWN	Rampur (M CI)	Urban	5653	3305	2348
	Rampur (M CI) - Ward No.1	Urban	1097	649	448
	Rampur (M CI) - Ward No.2	Urban	1041	581	460
	Rampur (M CI) - Ward No.3	Urban	853	512	341
	Rampur (M CI) - Ward No.4	Urban	567	323	244
	Rampur (M CI) - Ward No.5	Urban	594	365	229
	Rampur (M CI) - Ward No.6	Urban	564	336	228
	Rampur (M CI) - Ward No.7	Urban	937	539	398
TEHSIL	Nankhari(S.T)	Total	25154	12605	12549
	Nankhari(S.T)	Rural	25154	12605	12549
	Nankhari(S.T)	Urban	0	0	0
VILLAGE	Tikkri (1)	Rural	183	82	101
	Delath (2)	Rural	293	141	152
	Tutu (3)	Rural	595	266	329
	Barach (5)	Rural	113	52	61
	Panel (4)	Rural	579	273	306
	Nawan (6)	Rural	334	174	160
	Klanthi (7/2)	Rural	138	69	69
	Lelan (7/1)	Rural	642	305	337
	Phaula (68)	Rural	133	62	71
	Dadara (51/2)	Rural	514	247	267
	D.P.F. Theli (50)	Rural	26	14	12
	Theli (51/1)	Rural	390	182	208
	Chakti (51/3)	Rural	299	141	158
	Jhijnu (51/4)	Rural	138	61	77
	Sharog (52)	Rural	247	123	124
	Shakla (49)	Rural	207	109	98
	Dharan (12)	Rural	686	363	323
	Vevat (11/2)	Rural	191	104	87
	Kalmog (11/1)	Rural	273	127	146
	Nagadhar (8)	Rural	324	170	154
	Karangla (9)	Rural	372	192	180
	Kunat (10)	Rural	137	72	65
	Kharela (13)	Rural	211	94	117
	Shola (45)	Rural	311	144	167
	Tanash (47)	Rural	284	171	113
	Barog (53)	Rural	218	106	112
	Sohli (55/1)	Rural	775	387	388
	Dhansha (80)	Rural	166	83	83
	Manjholi (67)	Rural	418	205	213
	Mandoli (74)	Rural	287	141	146
	Surad 77)	Rural	547	268	279
	D.P.F. Daxni Surad (76)	Rural	20	13	7
	Kaleda (71)	Rural	381	201	180
	Ghat (73)	Rural	131	70	61

Manjeot (69)	Rural	175	90	85
Byunthal (70)	Rural	252	118	134
Kandreri (78)	Rural	475	227	248
Khamadi (82)	Rural	399	195	204
Karoli (81/1)	Rural	303	161	142
Dharunja (66)	Rural	400	199	201
Khori (65)	Rural	84	38	46
Khamnana (86)	Rural	138	72	66
D.P.F. Ktardhar (59)	Rural	98	54	44
Dhargala (55/2)	Rural	477	218	259
Thana (44)	Rural	1126	583	543
D.P.F. Nankhari (48)	Rural	16	13	3
D.P.F. Punan (42)	Rural	142	79	63
Punan (58/1)	Rural	398	209	189
Nali (58/2)	Rural	152	79	73
Grasu (61)	Rural	277	147	130
Loti (57)	Rural	205	100	105
Mundar (63/2)	Rural	197	95	102
Kungal (63/1)	Rural	433	212	221
Pangroti (81/2)	Rural	53	29	24
Bnala (81/3)	Rural	284	147	137
Bhali (64)	Rural	197	106	91

District Kullu

LEVEL	NAME	Total / Rural / Urban	Total		
			Population	Male	Female
TEHSIL	Nermand(T)	Total	47917	24583	23334
	Nermand(T)	Rural	47917	24583	23334
	Nermand(T)	Urban	0	0	0
VILLAGE	Chail (15/40)	Rural	2045	1059	986
	Sarahan (15/41)	Rural	851	334	317
	Jhaler (15/42)	Rural	986	491	495
	Nore (15/43)	Rural	1333	681	652
	Koti (16/44)	Rural	1085	549	536
	Shili Kote (16/45)	Rural	1918	1006	912
	Dethoa (16/46)	Rural	1533	799	734
	Sargha (17/47)	Rural	1381	702	679
	Kushwa (17/48)	Rural	1330	666	664
	Bari (18/52)	Rural	1160	598	562
	Arsu (18/53)	Rural	1436	757	679
	Sohach (18/54)	Rural	1475	745	730
	Rahnu (21/86)	Rural	2103	1063	1040
	Ghathoo (21/85)	Rural	2467	1283	1184
	Neether (20/83)	Rural	3224	1611	1613
	Lote (20/62)	Rural	2796	1415	1381
	Shilhi-Himri (20/61)	Rural	1226	610	616
	Gadej (20/60)	Rural	749	361	388
	Nermand (20/58)	Rural	6200	3228	2972
	Bael (20/59)	Rural	636	315	321
	Tawar (19/55)	Rural	1347	675	672
	Nishani (19/56)	Rural	1047	505	542
	Poshana (19/57)	Rural	3522	1848	1674
	Kasholi (18/51)	Rural	1018	518	500
	Thachwa (17/50)	Rural	1134	655	469
	Tunan (17/49)	Rural	4115	2099	2018

Total population of the area as per 2001 census falling under Rampur HEP CAT Plan is 1,14,195. The total geographical area of the CAT Plan is 1062.50 Sq. Kms. The population density per sq. Km. works out to be 107. The population is pre-dominantly rural.

2.10. Present condition of the Forest

The forests of Rampur Forest Division are being managed as per Sh. R.K. Kapoor's Plan for the forest of Kotgarh / Rampur Forest Division period 1993-94 to 2007-08 and the forest of Ani Forest Division are being managed as per Sh. S.S.Negi's plan for the forest of Outer Seraj for the period 1996-97 to 2011-12. The present CAT Plan covers the following administrative units of Forest Department.

Sr.No.	Name of Division	Name of Range	Name of Block	Name of Beat		
1	Rampur	Rampur	Rampur	Rampur		
				Pashada		
				Sanathali		
			Nogli	Khaneri at Jhakri		
				Nogli		
				Dansa		
				Duttanagar		
				Deothi		
				Munish		
				KashaPat		
				Darshal		
				Sarahan	Jaghori	
					Koot	
			Rawancha			
			Jaghori			
			Keobil			
			Phancha	Phancha	Phancha	
					Sarpara	
					Bhaghawat	
				Sarahan	Bahli	Bahli
						Chawka
					Saran-Jarashi	
					Surd	Khamadi
						Surd
						Beunthel
					Taklech	Taklech
			Theda			
			Darkali	Darkali		Darkali
						Nankhari
						Nankhari
Nankhari	Nankhari	Bai Behali				
		Kungal-munder				
		Sholi				
	Sholi	Sholi	Delath			
			Chakti			
			Sholi			
2	Ani	Arsu	Kharga	Sargha		
				Kindia		
				Kharga		
			Tonan	Tonan	Brow	
					Averi	
					Nirmand	
			Nirmand	Nirmand	Pujarli	

			Arsu	Arsu
				Buni
				Tharvi
				Palli
			Sarahan	Sarahan
				Shamani
				Tharla
				Juagi
		Nither	Nither	Moin
				Nither
				Sarahr
				Koil
			Margi	Margi
				Ghatu
				Nore
				Katmore

Chapter III

PRESENT POSITION OF FLORA AND FAUNA

3.1 FORESTS AND FORESTRY IN THE CATCHMENT AREA

Forests, apart from being an important source of timber and Fuel wood have other, equally perhaps more important function to perform viz.

- Meeting the requirement of Fodder and grazing.
- Are important source of non-timber forest produce.
- Maintain ecological balance.
- Help in moisture retention.
- Provide sustainable supply of water to the hydroelectric projects for the power generation and irrigation etc.
- Maintaining the capacity of multi-purpose river valley projects and reservoirs leading to high electricity generation and increasing the life of the project.
- Protection of fuel wood for the use of local people.
- Improvement of water retention capacity leading to more water for drinking and irrigation during dry months.
- Reduction of soil loss due to various types of erosion.
- Indirect reduction of crop losses in down stream areas due to flooding and silting.

As per the National Forest Policy, 66% of the area in the hills should be covered under the Forest. In the catchment area the scope for afforestation are limited by the fact that upper reaches of the catchment remain under permanent snow or is under alpine pastures where tree growth is not possible. However in areas, where the forests have degraded in the past or where tree growth is possible, it has been proposed to carry out plantation in such areas.

3.2 FOREST TYPES

With the variation in altitude and aspect the composition and condition of the forests vary to a great deal, giving rise to various forest types. The forests of the tract have been classified on the basis of classification of the forest types of India by Champion and Seth. The following main forest types are found in Rampur Forest Division:

Dry Tropical Forests

Group 5 Tropical Dry Deciduous Forest

Sub-Group 5B Northern Tropical dry deciduous Forest.
5B/C2 Northern mixed deciduous forests.

Group 9 Sub-Tropical Forest

Group 12 Himalayan moist temperate forests.

Sub Group 12/C 1 Lower West Himalayan temperate forests.
12/C 1 a Ban Oak Forests.

12/C 1 b Mohru Oak forests.
 12/C 1 c Moist Deodar forests.
 12/C 1 d Western mixed coniferous forests.
 12/C 1 e Moist temperate deciduous forests.
 12/C 1 f Low level blue pine forests.
 12/C 1/DS 1 Oak scrub.
 12/C 2 Upper broad leaved and coniferous forests.
 12/C 2 a Kharsu Oak forests.
 12/C b West Himalayan upper oak/fir forests.
 12/DS 2 Himalayan temperate parkland.

Group 14 Sub Alpine Forests.

Sub Group 14/C 1 West Himalayan sub alpine birch/ fir forests.
 14/C 1 b Birch / fir forests.

Group 15 Moist Alpine Scrub.

15/C Birch/ Rhododendron scrub forests.

The following main forest types are found in Outer Seraj Ani Forest Division

Group 5.1.bc-II- Northern dry deciduous forest

Group 9: Sub tropical pine forests.

C-1 Himalayan Sub Tropical Chil Pine Forests.
 D C-1/B Himalayan Sub Tropical scrub.
 Ds2- Sub-Tropical-Euphorbia scrub.

Group-12 Himalayan most temperate forests.

C-1 Lower west Himalayan temperate forest.
 C-1 (a) Ban Oak forest.
 C-1 (b) Mohru Oak forest.
 C-1 (c) Moist Deodar (Cedar deodar) forest.
 C-1 (d) Western mixed coniferous forest.
 C-1 (e) Most temperate deciduous forest.
 C-1 (f) Low level blue pine forests.
 C-2 Upper west Himalayan temperate forest.
 C-2 (a) Kharsu Oak forests.
 C-2 (b) West Himalayan upper Oak fir forests.

DS 1 Moutane Bamboo brakes.
 DS 2 Himalayan temperate park land.
 DS 3 Himalayan temperate pasture.
 ISI Alder forest.

Group -14 Sub-Alpine forests.

C-1 West Himalayan Sub-Alpine Fir forests.
 C-1 (a) West Himalayan Sub-Alpine high level fir forest.
 C-1 (b) West Himalayan Sub-Alpine burch fir forest.
 DSI Sub-Alpine pastures.

Group-15 Moist Alpine scrub.

C-1 Burch-Rhododendron scrub forest.

C-1 Dwarf Rhododendrum scrub.
CE-3 Alpine pasture.

3.3 FLORA

The forests found in the tract comprises of Deodar (*Cedrus deodara*), Kail (*Pinus wallichiana*), Fir (*Abies pindrow*), Spruce (*Picea smithiana*), Ban Oak (*Quercus leucotrichophora*), Mohru Oak (*Quercus dilatata*) Kharsu Oak (*Quercus semecarpifolia*), *Aesculus indica*, Bird cherry, *Populus ciliata* etc. The forests lie between 2000-3900m MSL.

Undergrowth : comprises of *Viola* sp., *Indigofera* sp., *Desmodium* sp., *Rubus* sp., *Deutzia* sp., *Sarcococa saligna*, *Viburnum* sp., *Plectranthus* sp., *Zanthoxylum alatum* etc.

3.4 FAUNA

The main wildlife species found in the area are Musk Deer, Goral, Serrow, Bharal, Himalayan Thar, Himalayan Black Bear, Common Leopard, Langoor, Snow leopard and other smaller mammals. Among birds five species of pheasants namely Western Tragopan, Cheer pheasant, Monal, Koklash and white crested Kalij are also found in the valley. In addition to these, a number of reptiles, amphibians and smaller birds are also found.

The description of some of the important wildlife found in the area is as follows:-

Herbivores – Musk deer (*Moschus moschiferus*), Goral (*Nemorhaedus goral*), Serow or Emu (*Nemorhaedus bubalicus*), Himalayan thar (*Hemetragus jemlahicus*), Bharal (*Ovis nahura*)

Carnivores – Snow leopard (*Uncia uncia*), Leopard (*Panthera pardus*)

Omnivores – Himalayan black bear (*Ursus torquatus*), Brown bear (*Ursus arctus*)

Pheasants – Western tragopan (*Tragopan melanocephala*), Monal (*Lophophorus impejanus*), Koklash (*Cerionis marcolophus*), Cheer (*Catreus wallichii*), White crested Kaleej (*Gennacus albieristatus*).

3.5 UNGULATE

Musk Deer (*Moschus moschiferus*): Locally this animal is known as Mushknapha. In past it has been hunted for its precious musk pod, which is in fact an abdominal gland, found only in the male animal. For its protection and further propagation the Himachal Pradesh Govt. has declared it a state animal. A solitary and secretive animal it is found between 2200 and 4000 meters elevation range, in sub-alpine Rhododendron zone in Pandra-Beesh, Kashapat area and in Daranghati.

Goral (*Nemorhaedus goral*):- Resembling a goat, the Goral extends its habitat from the Shivalik zone into the middle Himalayan zone. It is usually associated in small parties of 4 or 8, feeding on rugged grassy hillsides, in the mornings and evenings. In the lower parts of Sarga, Kharga, Kindla, Nither area and in Pandra-Beesh, Kashapat area i.e. from 1800 to 2800 meters the Goral has been sighted virtually in all grasslands.

Serow (*Capricornis Sumatraensis*) Local people call it emmu. It is goat antelope which lives solitary in thick forests and on rocky hillsides between 1800 meters to 3100 meters more commonly in the wet zone.

Himalayan Ibex The favourite grounds of Ibex lie in higher elevation above the tree line. In the Spring they are found below the snow line attracted by new grass sprouting in patches on the steep slopes above their grazing grounds, Ibex have the shelter and security on the precipitous cliffs and ridges in the upper reaches of Pandra-Bis, Kashapat, Darkali area.

Himalayan Thar (*Hemitragus jemlahicus*) This shaggy and heavily build wild goat with short curving horns inhabits steep cliffs in the forested terrain of Kashapat. Locally it is known as Meshi (Female) and Thar (Male). In Kashapat / Kukhi-Darkali area its population appears to be quite low.

Bharal (*Pseudis-nayaur*) In structure and habits the blue sheep of Bharal holds place intermediate between sheep and goat. This Himalayan Blue sheep is seen mostly above 3000 meters in around the area particularly in the nearby Sangla sanctuary and in the higher reaches of Sarahan and Bhagawat area. It prefers undulating ground and is a splendid climber and has phenomenal speed. Between trees and snow line, the Bharal finds its food in the occasional patches of coarse grass, moss and dwarf-shrubs.

3.6 CARNIVORA

Himalayan black bear (*Salenarctos thibetanus*) This animal inhabits the oak forests from 1800 meters up to 2500 meters it is considered a savage animal by the villagers for its raids on the village cultivation and occasional attacks on human beings. Its activities in winter are reduced considerably when it goes into hibernation.

Common Leopard (*Panthera pardus*) This member of the cat family is a sleek short haired and agile animal with a fulvous coat marked with closeset rosettes. It has adapted itself to the forested area as well as to the open countryside and also among the rocks and scrubs. It is know to lift sheep goats and cattle from the shed as well as from the forest.

Leopard Cat (*Fies bengalensis*) The villagers complain about it that it steals their poultry.

Jackals (*Canis aureus*):- Jackals have been reported in the populated areas. However there has been no sighting from the forested areas as such.

Fox (*vulpes vulpes*): Sightings of Fox in the tract are common. The villagers say that they have seen it during winter near their habitations.

Himalayan Weasel (*Mustela sibirica*): This small mustela has been seen several times in thatches all over the area. It mostly inhabits stone walls raised by the shepherd to protect their sheep and goat at night. This small animal 60cm in size is known for inflicting damages on the pheasants.

3.7 PRIMATES

Rhesus Macaque (*Macaca mulata*): The majority of Rhesus records are found between 1200 meters and 2400 meters mostly in the broad-leaved species forest. They may be seen near habitations, cultivations and in the broad-leaved forest.

Langoor (*Presbytes entellus*) As compared to the Rhesus Macaque this species is observed only in the higher altitude. Mostly it is found between 1800 meters and 2800 meter. During summer it may be seen feeding on oak acorns on the ridges. It also seems to like trees of *Aesculus indica*, Maple, Bird cherry and *Viburnum* buds leaves and fruits. This species is more arboreal than Rhesus Macaque.

3.8 PHEASANTS

Besides mammals, the large sexually dimorphic members of the family phasian generally known as pheasant are found in the area. This bird group is of particular interest because it includes two species designated as endangered in the I.U.C.N. red data book (1979) and because as spectacular bird they are potential attraction to the tourists. These pheasants are partly or wholly herbivorous and form an important component of the ecosystem present.

Monal pheasant (*Lophophorus impejanus*): A very colorful and attractive bird Monal pheasant is found throughout the western and central Himalayas between 6000 feet and 12,000 feet according to season. In its natural habitat Monal keeps up either singularly or in parties of three or four consisting of a cock and two or three hens or all of the same sex. They dig for food vigorously with their powerful bills on the edge of alpine pastures in the snow clearings. It is known to be hunted for its crest, which is made of wire like spatula tipped feathers, and also for its meat. However for its protection and propagation Himachal Govt. has declared it as a State Bird Monal has been sighted almost all over the area and outside too.

Western Horned Tragopan (*Tragopan melanocephalus*): The people living in sanctuary area and around call this pheasant as Pyara. This large pheasant is endemic to the Western Himalayas. They are found in Daranghati Sanctuary and above Bhagawat area of this tract.

Cheer Pheasant (*Catreus wallichii*): This is a pheasant of grass lands, found on hill sides between 1800 meters and 2500 meters locally it is known as cher. This species has been sighted in the Manglad area.

Koklash Pheasant (*Purcrasia maculophya*): A medium tailed pheasant, the Koklash is found on the steep forested hillsides between 500 meters and 3000 meters elevation. The crow of the cock from which the bird gets its local name Kwaksha is a loud singing KOK...KOK...KOK Kokras. This pheasant is suitably adapted to the biotic disturbances in its habitat. Hence it is surviving well it has been sighted in the forested areas almost all over Kasha-Pat valley.

White Crested Kalij (*Lophura leucimekana*): Local people call it Kala Murga. It occurs mainly between 1200 meters to 2500 meters therefore it occupies mainly portions of the sanctuary it has been sighted in bushes and shrubs near human habitation. The ability of Kalij to exist in disturbed forests ensures its survival all through its distribution range.

3.9 MEDICINAL PLANTS

A large variety of medicinal plants are found scattered all over the tract. Important medicinal plants found are as under:

Patish (Aconitum heterophyllum), Meetha Patis (Aconitum violaceum), Salampanja (Dactylorhiza hatagirea), Dhoop (Jurinea macrocephala), Kuru (Picrorhiza kurroa), Kirki (Gentiana kurroo), Bankakri (Podophyllum hexandrum), Singli-Mingli (Dioscorea deltoidea), Banaksha (Viola odorata), Muskbala (Valeriana wallichii), Kalazira (Carum bulbocastanum), Chirata (Swertia chirata), Buir or Senski (Artemisia maritima), Khanta or Somlata (Ephedra gerardiana), Khurasani ajwain (Hyoscyamus niger), Ban ajwain (Thymus serpyllum), Reward chini (Rheum emodi), Mamiri (Thalictrum foliolosum), Kuth (Saussurea costus), Chaura (Angelica glauca) Chukhri (Rheum emodi) etc.

Most of these are of very high economic importance and the proper managements measures coupled with the regeneration measures in the catchment area can boost the rural economy of the poorest.

3.10. RIGHTS OF THE PEOPLE

As per the Bushahr Settlement a number of rights and concessions have been admitted in the nearby forests to the local inhabitants, some important rights are as under:

i) Grazing: In almost all the forests, rights for grazing exist for each demarcated and un-demarcated forest. The settlement provides for free grazing to all animals of the right holders in their own chaks and no ceiling has been fixed on the number of cattle that might be grazed. The graziers availing summer grazing facilities in alpine pastures are not allowed to graze their animals outside chaks, unless allowed as special concession or through payment of a certain grazing fee. A large number of cattle graze in these forests leading to great damage to the vegetation as well as to the plantations. This right of grazing also comes in the way of taking up more closure for raising plantations of different species as the consent of the local people is to be obtained before plantation work can be undertaken.

ii) Collection of fuel wood: People have the right to collect dry and fallen wood for their domestic use as per the Forest settlement record. In the Project area, people depend heavily on fuel wood for their day to day use.

iii) Timber: People have the right to get timber at nominal rates for construction / repair / maintenance of their houses. The concessional rates were fixed at the time of Forest Settlement. No limit on the number of trees to be sanctioned was placed. Because of very nominal fee charged from the right holders/*bartandars* are extremely wasteful in the use of timber. A stages has now been reached that not many trees are available on silvicultural basis in some of the forests for the right holders.

iv) Cutting of grass and lopping of trees: People have the right to cut grass and lop trees for fodder purpose. Cutting of grass is being done as of present in the forests without paying any fee to the Department.

v) Collection of medicinal herbs: As per Bushahr forest settlement report the local right holder can collect and sell the medicinal herbs found in the region. For this purpose four year collection cycle has been prepared division-wise and the local people collect and sell the medicinal herbs accordingly as per approved cycle.

3.11. GENERAL CONDITION AND DENSITY

The composition and condition of the forests is not so good and tends to vary considerably with the altitude and aspect. DPFs and UPFs, which are in the interior and are away from habitations, are fairly well stocked. The forests nearby habitation are under a lot of pressure of the right holders for timber for building of houses under the T.D. rights. The status of regeneration in these forests is generally very poor. Many of the forests have also been heavily exploited in the recent past to meet up the demand of wood for packing cases. The present poor state of affairs is the cumulative result of heavy grazing, lopping, T.D. marking and demand for packing cases. In the lower areas, Chil forests are highly susceptible to fires which is an annual feature. In the higher altitude considerable damage to forest crop occurs in the years of heavy snowfall and a good number of trees get uprooted.

Chapter IV

PROBLEM ANALYSIS AND OBJECTIVES

The study area designated for the catchment area treatment is experiencing all the classic vagaries of the nature on a large scale. The terrain and geology of the area is very susceptible to high incidence of landslides / slips and water erosion. In the catchment area a major portion of precipitation is in the form of snow or low / high intensity storms. Bulk of soil erosion takes place due to scouring action of water, running off the surface during melting of snow. Steep slopes which are the general feature of the terrain aggravates the situation further. The two key issues which need to be addressed by this CAT plan are:-

- a) Silt load in the river Satluj
- b) Environmental degradation in the catchment and project area

The two issues apparently, look different but in essence, they are intricately linked and have their genesis in the common problem. Some of these problems owe their existence to the natural / physical factors existing in the tract like topography, geology, climate, soil etc, while the other problems are either manmade or aggravated by human actions. Very little can be done to change natural factors except to limit their adverse impacts. But problems due to human actions can be reduced to large extent by taking suitable preventive as well as remedial measures.

4.1. PHYSICAL AND NATURAL FACTOR

Rampur Hydro Electric Project is conceived as tailrace development of 1500MW Nathpa Jhakri HEP to tap the Hydro Power potential of river Satluj between Jhakri and Bail village in the Satluj basin. While many more projects are in various stages of conceptualization, construction or implementation. While most of these projects are to be located in Kinnaur district and a couple of these are planned downstream of Rampur HEP. It is apparent that in the near future, the activities related to these projects will gain further momentum. Further it has been noticed that a lot of construction activity is going on along national highway and other link roads by up hill and down hill cuttings, thus disturbing the strata in the catchment. However, the topography and other locality factors in general prevailing in the region are not very conducive for such fast development.

The catchment area of the Satluj extends well in to the territory of Tibet. In the Tibet region, the river flows in a narrow, deep channel with steep and barren hills rising on either side. Even after entering India, the river travels through a large barren tract. The hills are very steep and most of the catchment particularly beyond Kanam is devoid of any vegetation. Due to poor vegetal cover, the rate of soil erosion is rather high. Terrain and geology of the area makes it very susceptible to high incidence of landslides, glacier movement & other forms of erosion. The following forms of soil erosion are prevalent in the area: -

i) Sheet Erosion

The whole region, especially cold desert region suffers from sheet erosion during snow melt. The cultivated land on steep to very steep slopes especially the Kanda lands are prone to sheet erosion in the form of splash & laminar erosion. The pastures also suffer from moderate to severe soil erosion due to raindrop and laminar erosion. In these regions loose, shallow top soil overlies the compact soil. Due to sheet erosion, uniform layer of soil gets removed. Melting snow accelerates the

pressure. This region must be given an effective cover so as to minimize splash and run off on sloping lands.

ii) Rill Erosion

Rill erosion removes the soil in localized small washes in defined channels with dimensions of few centimeters and depth not exceeding 15-25 cms. This further leads to gully formation.

iii) Gully Erosion

Accelerated rill erosion lead to formation of gullies by the process of combining of unattended rills. Gully erosion is responsible for heavy sediment flow in streams and rivers as the eroded soil goes immediately and wholly into the streams owing to turbulence on steep gradients.

iv) Stream and River Bank Erosion

A large number of rivulets and streams in this catchment bring large quantities of sediment into the river with frequent under cutting and resulting in slope failures. This phenomenon occurs all along the river. The problem is very acute in the area having loose strata. Many streams cascading down the hill sides, with uncontrolled furry during the peak months of snow melt cut away large chunks of land. Flood prone Nallahs/streams have been identified.

The flow of streams and nalla in the tract is very turbulent. The loose strata combine with lack of vegetation and overgrazing aggravates the situation resulting in erosion of banks due to surface flow as well as scouring and under cutting the soil below the water surface. Frequent floods in these nallas also precipitate the bank erosion.

v) Land Slide Erosion

The region is quite prone to land slides/slips that take a heavy toll on valuable lands, property and life besides aggravating the problem of siltation in the rivers. The overall geological formation in the region is unstable, very loose & fragile. Thin beds of clayey limestones, shales, highly jointed sedimentary beds and schist varieties in the region with deformities like steep dips, folds and faults are all pointers to the land slide problems. The area of such slides/slips have been identified for treatment in the CAT Plan.

vi) Glacial Erosion

Glacial erosion is quite predominant in the area. A large number of peaks are under perennial snow or remain under snow for most of the time during winter months. Whenever there is a movement of large mass of ice down the slopes, it brings along with it huge debris causing a lot of soil erosion. Glacial action is characterized by furrowing, cutting, ploughing and scouring action on the landmass. The flash flood due to enormous snow melt transports the debris down to the river system after having inflicted a lot of damage to the bed and to the sides of gullies. Against the enormous force of glaciers, the protective measures including the encouragement of vegetation have virtually little effect. However, Nallahs to be treated have been identified for treatment in the CAT Plan.

vii) Wind Erosion

In addition to the erosion by water, wind erosion is also common in the area. Particular in the denuded area, the wind erosion is severe.

Lack of vegetal cover is a contributing factor for accelerated soil erosion in the tract as also for environmental degradation. While ideally, dense tree cover would have been the best insurance against soil loss and environmental degradation, the condition in the tract are otherwise. Large areas are either blank or bear very thin tree crop. The lower reaches of the tract along the river are generally barren and devoid of any tree growth. The good forests are confined to upper reaches. The topmost portion either support alpine pastures or are under snow for most part of the year and tree growth is not possible in these area. Thus these natural conditions are a limiting factor in addressing the problem of the soil erosion and environmental degradation. Nevertheless remedial measure can be taken to minimize their impacts to some extent.

viii) Man Made Factors

Certain problem of the region are either wholly due to human action or influenced to a large extent by his actions and upcoming economic activity in the region. The socio-economic pattern is also fast changing and transforming into modern society. Human being is disturbing the nature due to fast changing day to day life by way of his aspiration for construction activities and other related action which are causing detrimental effects.

ix) Live Stock Practices

Live stock practices in the tract are rather primitive. Mostly open grazing is practiced with little stall feeding and minimal fodder cultivation. Incidence of grazing in the high lying alpine pastures as well as in the low lying village pasture land is very high and fodder resources are fast decreasing. The carrying capacity of pastures adjoining villages is very low, as these remain over grazed throughout the year without any rest or adequate provision for rehabilitation. Almost all the forests are burdened with the right of local people to graze their cattle, without any ceiling to the number of cattle which may be allow to be graze. This open access to forest for grazing lead to great damage to vegetation as well as to plantations. Besides this, the heavy cattle grazing also is a precursor to soil erosion as the cattle not only eat and trample young seedlings but also reduce the permeability of soil through its compaction resulting in increasing run-off.

x) Migratory Grazing

The problem of unregulated grazing by cattle of local population further gets compounded by the practice of migratory grazing prevalent in the area. The flocks of migratory grazing avail summer grazing facilities in the alpine pastures of this tract. A number of *Gujjars* with their herds of buffaloes also migrate to the area for summer grazing. This practice of migratory grazing is also harmful to the vegetation in the route of migration.

xi) Collection of Fuel Wood And Fodder

The local population depend on adjoining forest for their day to day requirement of fuel wood and fodder. They have the right to collect dry and fallen wood for their domestic use and to lop tree for fodder. Often heavy lopping of trees is resorted to by the local population which activity is injurious for the well being of forests.

xii) Timber Distribution Rights

People have the rights as per settlement to get timber at nominal rate from the

adjoining forests. This concession has resulted in considerable depletion of forests near the habitation centers, as the demand for timber is growing day by day, and the replenishment / regeneration is not keeping pace with the removals.

xiii) Unscientific Farming Practices

Land use and farm practices being adopted by the people are most of the time incompatible with the physical conditions of the site. Steep gradient of terrain and friable nature of soil, call for improved farm practice on scientific lines to reduce the danger of soil loss as also to improve the productivity. But the farm practices and land use prevalent in the tract are obsolete.

4.2. DETRIMENTAL EFFECTS OF VARIOUS PROJECT ACTIVITIES

The general factors discussed above are detrimental to environmental conservation in the area. In addition to these factors, certain project activities will also affect the environmental conditions in the region. These causative factors are as under:-

i) Erosion Due To Road And Other Civil Works

Roads are the only means of communication and form an important development activity in the region. In most of the cases, the roads are built along the river / stream courses, the natural openings to different valleys. Road construction in the mountainous terrain requires a lot of blasting and construction in a zigzag fashion leading to large scale devastating effect and siltation in the rivers.

ii) Blocking Of Natural Drainage Channels

Although most of the construction spoils in the project is taken to the designated dumping sites yet some proportion of the construction spoils does find its way to adjoining nallas and eventually to the river Satluj. This causes choking of natural drainage channels and results in over flow, bank cutting, debris accumulation, accelerated soil erosion and deterioration in water quality. Similarly, runoff from unprotected excavation sites leads to increase soil erosion and sedimentation downstream of these sites. This erosion rate is quite significant during the construction phase.

iii) Deforestation

Forest land as well as private land is being transferred /acquired for the construction of this project and other activities as per provision of forest conservation act 1980. The vegetation from such land has to be cleared to make way for various project components. This result in reduced vegetation cover in the project area, affecting the microclimate of the tract.

iv) Loss Of Pasture Land

The land to be acquired for the project is mostly the pasture land of adjoining villages. While this land will be lost for grazing, the number of the cattle in the villages will remain the same. This will result in shifting of pressure for grazing of local live stock to the adjoining forests.

v) Change In Subsoil Water Regime

The extensive tunneling operations in the area has its effect on sub soil water regime, and water recharging capacity.

vi) Damage To Rural Infrastructure

The project activities will cause damage to rural infrastructure like village path/ road, traditional water sources, irrigation channels etc.

vii) Additional Strain On Natural Resources

The projects constructed in the past have induced higher economic activity in the area and development of service sector. Large influx of labour force has resulted in mushrooming of unplanned habitation, generation of increased amount of solid waste as well as sewage and increased vehicular movement. This has placed additional strain on natural resources of the area. More labour will also be employed during the course of construction of the project which will also put additional stress on natural resources.

Besides above, the project construction activities also have the following environmental impacts: -

- Quarrying and crushing activity is generating debris.
- Triggering of land slide / slips in forest as well as private area.
- Loosening of strata due to blasting rendering the hill sides prone to land slips.
- Reduced percolating /infiltration of surface water resulting in increase in runoff volume as well as velocity.
- Disturbance to the ground water table leading to the changes in aquifer condition; drying up of springs, decrease in perenniality of streams.
- Deterioration of the visual aesthetics of the area.

viii) Effect On Fauna

Wild-life is an integral part of forest eco-system, the role and importance of wild life with regard to maintenance of balance in nature cannot be over emphasized. The last decade has seen massive disturbance to the wild life in the area due to construction of many hydro projects including NJPC. Large number of machines and labours were brought to complete this project. The external disturbances caused by operation of machinery and blasting work in construction of roads, tunnel, site development for buildings, Power plants and dam sites has resulted in a lot of disturbance to the fauna of the tract, which is facing increased biological and ecological pressure. The detailed analysis of problems and impacts on fauna of the tract has been described in the Chapter on Wild-life.

4.3. STARTEGY AND APPROACH

The issues analysed above need to be addressed by this CAT Plan. It is clear from the analysis of the problems that traditional approach of afforestation or soil and water conservation undertaken in isolation, will not be enough as they concentrate on the symptoms of ecological deterioration rather than on socio economic issues which are the root causes for such deterioration.

The immediate task is to check soil erosion in the area so that regular and sediment free water yields in the river system, which has a direct bearing on successful

running of the hydroelectric project. To achieve this, massive afforestation along with soil conservation measures, are to be done in the catchment area, which will help in soil and water conservation along with meeting the demands of fuel, fodder, timber etc. of local people.

Intensive Soil and Water conservation measures are proposed to be taken in the catchment area, ensuring sediment free yield of water in the river Satluj. Intensive pasture management will be done in catchment area, as these areas beside giving high quality pasturage will help significantly in the proper hydrological functioning of the hill eco-system.

4.4. PEOPLE'S PARTICIPATION

The emphasis of the CAT Plan is on enabling local people to prevent, arrest and reverse degradation of life support systems, particularly land and water, so as to produce bio-mass in a sustainable manner. Importance of microplanning on watershed basis with community participation will be promoted during implementation of the CAT Plan. Suitable institutional arrangements like Village Forest Development Societies (VFDS) representing various sections of the community will be formed.

This participatory approach will ensure sustainability of the interventions, and will promote the responsibility of various stakeholders in the management of resources.

Self Help Groups/ Women Saving & Credit Groups will be formed from the identified IRDP/BPL families so as to help the people who are most directly dependent on the natural resources. Unless the "survival biomass" needs of rural poor; fuel, fodder and small timber are satisfied, the forests and pastures developed by the plan would remain vulnerable and unsustainable.

Chapter V

WILDLIFE MANAGEMENT

5.1. INTRODUCTION

The area of the tract is rich in flora and fauna. Our love for wildlife has got religious sanction behind it. Our sacred scriptures speak so eloquently about the protection and preservation of animal and bird kingdom. Almighty has created every being with a definite purpose and function to maintain the ecological balance. Very varied and interesting wildlife is found in the forests of the tract as a result of great variation in altitude, topography, climate and vegetation. The wildlife in this tract is however under increasing threat due to deforestation, poaching and other biotic pressures. As a result of this in some areas the very existence of unique species like Musk deer, Ghoral, Bluesheep (Bharal), Monal, and Western Tragopan, which are highly endangered, has been threatened.

The wildlife in the region is exposed to a lot of human disturbance beside stray cases of poaching. The excessive cattle population is a great pressure, which is often beyond the carrying capacity with the result that neither the cattle get the sufficient fodder/grasses nor the lands are fully protected from the onslaught of rains on account of over grazing. This results in deterioration of ecology & environment of the Satluj Valley. Local people have exercised their traditional rights since time immemorial even after declaration of sanctuary under section 18 of the Wildlife (Protection) Act. The Daran Ghatti sanctuary comprises two parts i.e. Daran Ghatti-I and Daran Ghatti-II. The part I of the Daran Ghatti sanctuary is located in the Manglad catchment whereas part II of the sanctuary falls in Nogli catchment. Besides this Pheasant breeding centre has been established at Sarahan for captive breeding of the pheasants. The main species being bred in the breeding centre at Sarahan are Monal, Kaliz, Koklash, main being western horned tragopan.

5.2. FLORA AND FAUNA

The main vegetation found in the area is Deodar, Spruce, Blue pine, Silverfir, *Betula utilis*, *cheer*, *Juglans regia*, *Acer* spp., *Fraxinus floribunda*, *corylus columna*, *Anemone* spp., *Gentiana* spp., *Jurinea* spp., *Acontium-heterophyllum*, *Agrophrone* spp., *Brachypodium syriaticum*, *Bromus japonicus-poa* spp., *Dactylic* spp. and *Millium Effusum* etc. grasses and dwarf shrubs such as *Juniperus macropoda*, *Artemisia maritime*, *Caragana* spp., *Lonicera* spp. The main wild life species found in this tract are Musk deer, Ghoral, Barking deer, Bharal(Blue sheep), Serow, Himalayan Thar, Himalayan black bear, common leopard, snow leopard, leopard cat, jungle cat, fox, Indian porcupine etc. Among birds five species of pheasants namely Western tragopan, Cheer pheasants, Monal, Koklash and white crested Kalaj are found in the tract. In addition to these, a number of reptiles, amphibians and smaller birds are also found.

5.3. SPECIAL OBJECTIVES OF WILDLIFE MANAGEMENT

The special objectives of wildlife management are listed below:-

- 1) To maintain plant and animal bio-diversity in nature by establishing the viable, healthy and productive population of wildlife for conserving genetic resources.
- 2) To ensure collection of scientific data for the maintenance and development of viable population of flora & fauna for scientific, aesthetic, cultural,

ecological and economic purposes.

3) To identify the problems of wild-life in the tract, which in turn will help in formulating the guidelines for their development and improvement.

4) To manage the habitat of fauna by providing special food and ideal habitat especially for Musk deer, Bharal (blue sheep), Ghoral, Barking deer, Himalayan Thar, Snow Leopard, Western Tragopan and Koklash etc.

5.4. MANAGEMENT OF WILD LIFE IN GENERAL

The scientific wild life management is based on the biological characteristic of a species. Other considerations such as economic, political, social, humanitarian and sentimental are equally important. Apart from these the following points need to be considered before prescribing the management.

(i) Demographic studies

Since the exact number of various animals found in the tract are not known, the fundamental need is to carryout a detailed survey to find out the abundance index and encounter rate of important wild-life spp. in the area. The latest periodic census for leopard was carried out during 17-06-2004 and for monkey during 16-06-2005. Recently during 16th May to 18 th May, 2005 population estimation for pheasants was also carried out and the results are given in table 5.1. Such information is prerequisites for devising and implementing appropriate conservation and protection programmes.

Table 5.1

Name of Division Rampur		Year of Census 2005-06
Sr. no.	Name of Species	Numbers
1.	Monkey	6896
2.	Langur	750
3.	Pheasants (Population estimation)	
a)	Red Jungle Fowl	22
b)	Kaliz	580
c)	Koklas	189
d)	Monal	133
e)	Western Horned Tragopan	30
	Total	954
4.	Leopard census	
a)	Sighting	5
b)	Pug marks	4
c)	Scats	7
d)	Other evidence	6
	Total	22

(ii) Causes of depletion

The causes for the depletion of fauna can be described as under: -

- i) Poaching, hunting, trapping and killing of wild animal by local inhabitants.

- ii) Biotic interference by man and his cattle especially near inhabitation coupled with clearing of forest land for agricultural purposes.
- iii) Depletion in the food of herbivorous animals because of logging of fodder trees by the graziers and local people.
- iv) Natural calamities like drought, storm, heavy snow fall and repeated forest fires etc.
- v) Continuous predation has also caused the depletion of animals. This affect both herbivorous and carnivores.
- vi) The last decade has seen massive disturbance in sanctuary area of this tract because of construction work of Sanjay Vidyut Project, Nathpa Jhakri Power Corporation Project, Ganvi Hydel Project and Baspa Hydel Project, The external disturbance caused due to blasting works in construction of roads, tunnel works, site development for various building, Power plants and dam sites has resulted into a lot of pressure on wild life of the Sanctuary areas.

(iii) Protective Measures

The protection of wild life can be afforded by preventive and control measure. The existing arrangement of protection is unsatisfactory and inadequate. The important measure which should be adopted for the preservation and propagation of wild life are:

- a. The people of the area are not fully aware of the biological and ecological constraints, which the fauna of the tract is facing. The need of the hour is to educate the students and people through the medium of speech, T.V, Radio etc. in order to create awareness and love for wild life amongst them.
- b. Crop protection licenses should be issued only where these are absolutely necessary. The license of a poacher be cancelled and gun confiscated for this offence.
- c. Chowkidar may be appointed on a part time basis to assist the protection staff in detecting and apprehending the poachers during hunting and mating season.
- d. Protection from forest fires should be ensured by creating fire lines, construction of fire watchtowers at strategic places and posting of firewatchers during fire season. Field office with a wireless set to provide immediate help for combating the fire in the area.
- e. Periodic inoculation of domestic animals in the surrounding area should be done to prevent cattle borne diseases being transmitted out to wild animals.
- f. Anyone furnishing information about the offenders should be duly rewarded.

(iv) Developmental Measures

Study of ecology involving the knowledge of inter dependence of plants and animals, population fluctuation, food chains, propagation and succession is very necessary for proper management of wild life. The following measure will have to be under taken for the development of the fauna :-

A. Intensive Management of Wild-life Sanctuary- which would include Improvement of Wireless Communication System, Fire Fighting Equipments, Debris Disposal, Veterinary Facilities, Reward and incentive to informers, Anti Poaching Activities, Habitat Improvement, Nature Awareness Camp, Wild-life Census operations, Sign & Slogan, strengthening of boundary demarcation of forests.

B. Eco-development activities- which would include Village support activities i.e. Development of NTFP, Ecotourism Development and Income Generation Activities.

A. Intensive Management of Wildlife

Since all animals in nature live in a complex web of linkages with other organisms, the proper evaluation of habitat of each species followed by its proper management is very important. The plant life provides congenial home to wildlife. Therefore, the habitat of wildlife is to be improved so that proper multiplication take place. For this bushy and thick forest are to be maintained for affording protection to game animals, birds which descend to lower elevation during winter season.

Shrubs producing food for wild animals and birds should not be indiscriminately cut, but should be encouraged at place to provide food for wildlife. The bushes and plants, which bear foliage when the majority of forest species are leafless, deserve special attention. Most of the wildlife found in the tract depend upon broad leaved species viz. Walnut, Bird cherry, Maple, Horse Chestnut, etc should be maintained. No grasses should be removed, the blank area in various forests especially in higher reaches along ridges should not be planted with timber spp but these are to be maintained as pasture land by sowing and planting palatable grasses. Besides, saltlicks should be provided at suitable places.

Though a number of perennial river and streams are there in the tract, yet some nallahs have the water only in rainy season. Therefore, sufficient water holes are to be provided so that fauna does not suffer from lack of water in drought periods.

B. Eco-development

Alternate income generation activities are to be given priority, as a measure to reduce the dependence of villagers on the forests. The area adjoining Forest inspection hut and trekking huts can be developed under Eco-development as Van Vihars. This will attract local as well as tourists. In such areas the visitor should be supplied with literature regarding wild-life. Tourism is necessary to educate the public about wild life and to enjoy the pleasure of being in wilderness. Biotic interference can be reduced in buffer zone (Multiple use area) by creating facilities for local people of fuel wood, fodder, building timber and also providing alternative energy sources like smokeless chullahs, solar lights, Pressure cookers, Gas cylinders and chulhas, construction of crematoria, providing cattle of improved quality and providing water facilities for drinking and irrigation purposes so that dependence of local people on core zone is reduced and ultimately eliminated.

On account of hilly terrain, dependence on both human & cattle population is abundant on forests, Therefore greater emphasis has been laid in this CAT Plan on under taking afforestation, pasture development, soil and moisture conservation works, habitat

improvement work and eco-development activities mainly in buffer zone to check biotic interference in core zone of the sanctuary areas of preservation & propagation of wild life.

(v) Monitoring

The CAT PLAN will fund periodic monitoring of the flora and fauna not only in the protected area but in other areas of the project as well.

Chapter VI

OBJECTIVES AND TREATMENT PROPOSALS

6.1. CAT PLAN STRATEGY

Keeping in view the objective of this CAT Plan, a two pronged strategy will be adopted: -

- I Catchment protection and development.
- II Institutional strengthening.

Unstable terrain, decreased forest Cover, large population of unproductive cattle, excesses biotic pressure for fuel, fodder, grazing and timber is resulting in depletion of forest resources at a fast rate resulting in increased rate of siltation, surface runoff, sheet and gully erosion with minimal addition to ground water. These problems are interdependent. The CAT plan is designed to address this basic environmental problem of the tract viz catchment degradation. The CAT Plan will support a combination of proven locally adopted site specific bio-engineering technologies to reduce soil erosion, conserve water and improve vegetal cover in the catchment. An associated approach would be to assist institutional development and strengthening to ensure sustainability of interventions. Thrust would be on involvement and participation of local communities. In addition to this the CAT Plan will have a strong focus on strengthening of wild life management in the area. The main objectives of the CAT Plan are:

- i) To achieve ecological rehabilitation of the project area leading to all round economic development on a sustainable basis.
- ii) To increase the vegetation cover in the area by Afforestation of areas/forests threatened with erosion, with due consideration for fodder/fuelwood and timber demand of local people.
- iii) Combating erosion in all forms on slopes, wherever possible.
- iv) To promote in situ moisture conservation, ground water recharge and to increase the productivity of all types of land.
- v) To carry out soil conservation measures in identified watershed to ensure the longevity of the reservoir of Rampur hydro electric project.
- vi) To improve the carrying capacity of pasture by augmenting grass and fodder availability and to solve the problems of migratory graziers.
- vii) To strengthen productive & protective functions of existing forests.
- viii) To provide employment to the local people by engaging them on afforestation and soil conservation works.
- ix) To improve rural infrastructure in the project area.
- x) To increase productivity of all types of land and sustained use of natural resources.
- xi) To promote community participation by motivation/awareness and training in adopting environmentally sustainable practices and to upgrade their skills in natural resource management.
- xii) To conduct research/studies for developing appropriate site specific technological packages with focus on resolving PLAN implementation problems.
- xiii) To mitigate the project impacts on wildlife by initiating ameliorating measures and to strengthen wildlife management in the tract.

6.2. PLAN PERIOD

The CAT Plan period will be for 10 years starting from 2006-07 to 2015-16 the most of activities will be completed during the initial 5 years and the later half of the plan period will be mainly for maintenance of plantation areas. During the zero year of the plan nurseries will be raised which will cater to the need of healthy planting stock for the plantation areas identified for plantation under various component in the following years.

6.3. PLAN COMPONENTS

The CAT Plan has been designed to develop the catchment area in an integrated manner by improving vegetative cover over the degraded and blank areas and to treat the flood prone nallahs, stabilize landslips and road side slopes by providing suitable bio-engineering structures and various soil conservation measures. The project will have the following components: -

1. ESTABLISHMENT OF FOREST NURSERIES UNDER CAT PLAN

2. FOREST CONSERVATION & IMPROVEMENT

- A) AFFORESTATION OF DEGRADED FOREST LANDS
- B) REPLINISHMENT AFFORESTATION
- C) ASSISTED NATURAL REGENERATION
- D) DEVELOPMENT OF MEDICINAL PLANT

3. PASTURE IMPROVEMENT

- A) ALPINE PASTURES
- B) LOW LYING PASTURES

4. SUBSIDIARY SILVICULTURAL OPERATION

5. SOIL AND MOISTURE CONSERVATION WORKS

- A) STABILIZATION OF ACTIVE LAND SLIDE
- B) TREATMENT OF NALLAS
- C) ROAD SIDE EROSION CONTROL

6. AVENUE PLANTING & LAND SCAPING

7. FOREST INFRASTRUCTURE DEVELOPMENT

- A) REPAIR OF FOREST PATHS
- B) REPAIR / CONSTRUCTION OF OPERATIONAL BUILDINGS
- C) FARM PONDS
- D) SOIL & WATER HARVESTING STRUCTURE

8. RURAL INFRASTRUCTURAL DEVELOPMENT

- A) VILLAGE PONDS & TANKS
- B) REPAIR OF SPRINGS, BAWARI & OTHER WATER SOURCES
- C) STRENGTHENING OF VILLAGE ROAD & PATH
- D) CONSTRUCTION OF FOOT BRIDGES

9. TREATMENT OF PRIVATE LAND

10. FUEL SAVING DEVICES

- A) CONST. OF CREMATORIA

8) DISTRIBUTION OF PRESSURE-COOKER/BIOGAS CHULLAHES

11. RAIN WATER HARVESTING

12. WILD LIFE IMPROVEMENT

A) INTENSIVE MANAGEMENT OF WILD-LIFE

I) PROTECTION OF FOREST AND WILD-LIFE

- a) Repair of Existing Boundary Pillars
- b) Improvement of Wireless Communication System
- c) Equipment I.e. Fire Fighting
- d) Debris Disposal

II) VETENARY FACILITIES / VACCINATION OF DOMESTIC CATTLE

III) REWARD/ INCENTIVES TO THE INFORMERS

IV) ANTI POACHING ACTIVITIES

V) HABITAT IMPROVEMENT

VI) NATURE AWARENESS CAMP

VII) WILD LIFE CENSUS OPERATIONS OUTSIDE PROTECTED AREAS.

VIII) SIGN AND SALOGAN BOARDS

B) ECO DEVELOPMENT ACTIVITIES

- i) VILLAGE SUPPORT ACTIVITIES (INCLUDING SANNITATION ETC.)
- ii) DEVELOPMENT OF NTFP.
- iii) ECO TOURISUM ACTIVITIES
- iv) INCOME GENERATION ACTIVITIES (VERMI COMPOSTING)

13. FOREST PROTECTION

A) CLEARANCE OF FIRE LINE

B) ENGAGEMENT OF FIRE WATCHERS AND FIRE FIGHTING SQUADS

C) PROVISION OF FIRE FIGHTING EQUIPMENT

D) CONSTRUCTION OF WATCH TOWERS

E) CONSTRUCTION OF GANG HUTS

F) IMPROVEMENT OF COMMUNICATION SYSTEM

14. TRAINING & STUDIES

15. AWARENESS & PUBLICITY

16. OPERATIONAL SUPPORTS

- A) ESTABLISHMENT CHARGES
- B) OFFICE EXPENSES
- C) TRAVELLING EXPENSES
- D) OFFICE EQUIPMENT
- E) OPERATIONAL MOBILITY
- F) AMENITIES TO STAFF AND LABOUR
- G) MOTOR VEHICLES

17. AGRICULTURE SUPPORT

18. HORTICULTURE SUPPORT

19. ANIMAL HUSBANDRY SUPPORT

20. CONTINGENCY

6.3.1. ESTABLISHMENT OF FOREST NURSERY UNDER CAT PLAN

To raise successful plantations it is necessary to have good planting stock. It is proposed to establish / extend the following nurseries division wise. These nurseries shall be raised in the zero year of the project and will be further maintained till the completion of the CAT Plan works. Total amount of Rs. 21,62,000/- (0.92%) has been kept for this purpose out of this 10,12,000/- will be spent in Rampur Forest Division and Rs. 11,50,000/- in Ani Forest Division.

1 Rampur Forest Division

Name of Range	Name of Nursery
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Sarahan	Bhagawat Rawancha Joghori Sarpara
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Rampur	Darshal Kashapat Kutoo Khakrola Urman
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Bahli	Jarashi Chasani Bahli Ari Rajpura Shaily Beunthal Marala
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Nankhari	Railla Sholi Chakti Bhadral
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2 Ani Forest Division

Arsu	Shroo Kasumba kazu-Khad Chambu Arsu Buni Tharia
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Nither	New Nry. Shelli Sander Van Nry. Shilla Nry New Nry. Dokhari Duraha New Nry. Kail Margi Nry. Ghattu Nry Bathwa Medicinial Nry.
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6.3.2. FOREST CONSERVATION & IMPROVEMENT

A well-stocked forest is the best insurance against soil loss as well as for ecological rehabilitation. It is therefore proposed to increase the vegetation cover in the tract. For this, hitherto barren areas which are devoid of tree growth or the degraded forestland with scanty vegetation shall be brought under afforestation.

The locality factors prevalent in the area are fairly adverse to the establishment of plantations. The areas identified for plantations are quite refractory. Soil conditions are poor. Rainfall is inadequate and erratic. Winter is harsh and wind velocity is quite high. Added to this is the problem of excessive human and cattle interference in these areas. The ever increasing number of stay cattle in the tract is fast emerging as the biggest threat to the newly raised plantation. Thus special and intensive efforts are needed to ensure the success of afforestation work. Owing to the above enumerated factors, the plantations will require higher levels of maintenance also. The existing financial norms for raising plantations as prevalent in the Forest Department will not be adequate to ensure quick and successful establishment of these plantations. Hence, detailed cost analysis for each plantation scheme has been done, keeping in view the site conditions and objectives of the Plan and the norms so calculated will be applicable for works to be executed under this CAT PLAN. Thrust will also be laid on improving quality of nursery stock in the existing departmental nurseries so that sturdy nursery plants are available which can withstand the rigorous site conditions. Total Funds allotted under this head is Rs. 8,17,63,200/- (34.98%) and this component forms the core activity of this CAT Plan.

The afforestation activities will be carried out under four different schemes as detailed below to make them specific to the needs of the areas being treated.

a) Afforestation of Degraded Forest Lands

Under this scheme blank areas devoid of tree growth, or degraded forest areas shall be taken up for planting. While the choice of species will be mainly governed by the site, efforts will be made to raise a mixture of conifer and broad leaved species so far as practical. The main species to be raised under this scheme are Deodar, Kail, Silver Fir, Spruce, Robinia, Ailanthus, Walnut, Aesculus, Maple, Birdcherry, Leucaena, Poplar, Ritha, Drek, Chulli, Kunish, Shisham, Ban Oak, Sires, Beuhal etc. The preference of local communities as regards the choice of species will be ascertained and given due weightage. 1100 plants per hectare will be planted under this scheme. Besides planting, moisture retention works will also be required to be undertaken in these areas to increase the moisture regime in the plantation areas. For this purpose equal number of Gradonial trenches of the size of 1 x 0.30 x 0.30meter will be prepared above the pits. The plantation will be maintained for subsequent seven years. Since the areas are either devoid of tree growth or have low density forest cover hence stone pillars are provided instead of wooden fence posts and the barbed wire fencing will be done with these pillars. A total of **780ha.** area has been identified as available for tackling under this scheme. Out of the total, **300ha.** have been identified in Rampur Forest Division and **480 ha.** in Ani Forest Division. The detail of the area identified is given in **Indicative list Annex.XV(b).** However, availability of these identified areas is highly dynamic in view of changing locality factors, consent of local population and need to leave sufficient areas for local cattle grazing. The detail of works required to be done under the scheme along with cost structure is given in **Annex.-I, & II.** Owing to the heaving incidence

of stray cattle, proneness to fire and other biotic interference to which these areas are susceptible. It is desirable that a person is employed exclusively for watch and ward of these plantation areas during the high risk period as otherwise it is very difficult to ensure the establishment of these plantations. With this view, the lumpsum protection cost has also been provided in the cost model. Cost per hectare including maintenance for seven years works out to Rs.51,880. The total outlay for this component will be Rs.4,04,66,400(17.31%).

Table No. 6.1

Expenditure for Afforestation of Degraded Forest Lands:-

1. Initial cost of raising plantations over 780 ha. @ Rs.33500/- = Rs.2,61,30,000/-	
2. Maintenance cost for 7 years	
1st year maintenance over 780 ha. @ Rs. 3,980 =	Rs.3104400/-
2nd year maintenance over 780 ha. @ Rs.3100 =	Rs.2418000/-
3rd year maintenance over 780 ha. @ Rs.2,800 =	Rs. 2184000/-
4th year maintenance over 780 ha. @ Rs.2,500 =	Rs. 1950000/-
5th year maintenance over 780 ha. @ Rs.2,200 =	Rs. 1716000/-
6th year maintenance over 780 ha. @ Rs.1,900 =	Rs. 1482000/-
7th year maintenance over 780 ha. @ Rs.1,900 =	Rs. 1482000/-
G.Total:-	Rs.4,04,66,400/-

b) Replenishment Afforestation

Many of the regular forest areas of the tract have been depleted due to excessive pressure of local population for timber, fuel wood and fodder. The crop in these areas has become quite open and natural regeneration due to biotic interference is absent. It is essential to restore such areas to their optimum productive potential so that their protective influence in ameliorating the environment is utilized to the full. Thus it is imperative that such forest areas are planted by artificial means to increase their stocking to the required level. Some plantation raised in the past, although established, contain small blanks caused due to various factors like grazing, fire etc. Such areas shall also be taken up under this scheme to replant the gaps so as to raise the stocking in such deficient areas to the optimum level.

A total of **460 ha.** area has been identified for treatment under this component as per detail given in **Indicative list Annex.XV(c)**. Out of the **total 260ha.** have been identified in Rampur Forest Division and **200 ha.** in Ani Forest Division. In the areas under this component 700 plants will be planted per hectare. The detail of works to be done and the cost norms is given in **annexure III & IV**. The lumpsum cost of the fence post along with protection cost has also been provided in the cost module. Cost per hectare including maintenance for seven years work out to **Rs. 41,930** and the total cost under this component will be **Rs.1,92,87,800/- (8.25%)**

Table No. 6.2

Expenditure for Replenishment Afforestation:-

1. Initial cost of raising plantations over 460 ha. @ Rs.28000/- =	Rs.1,28,80,000/-
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2. maintenance cost for 7 years

1st year maintenance over 460 ha. @ Rs. 2,780 =	Rs. 1278800/-
2nd year maintenance over 460 ha. @ Rs.2,300=	Rs. 1058000/-
3rd year maintenance over 460 ha. @ Rs.2,100 =	Rs. 966000/-
4th year maintenance over 460 ha. @ Rs.1,900 =	Rs. 874000/-
5th year maintenance over 460 ha. @ Rs.1,750 =	Rs. 805000/-
6th year maintenance over 460 ha. @ Rs.1,550 =	Rs. 713000/-
7th year maintenance over 460 ha. @ Rs.1,550 =	Rs. 713000/-
G.Total:-	<u>Rs 1,92,87,800/-</u>

c) Assisted Natural Regeneration:-

In some forest areas, conditions are conducive to natural regeneration provided some sort of assistance is provided. Such areas shall be taken up under this component. The areas shall be closed to reduce biotic interference. Forest floor will be cleared of slash, debris and felling refuse to afford a clean seed bed to the falling seed. At certain places some soil raking may also have to be done to facilitate germination of seeds. Where natural regeneration is found deficient, it will be supplemented by artificial planting. Patch sowing in suitable areas may also be done. Up to **300 plants and 150 patches** per hectare will be planted / sown to hasten the process of regenerating the area uniformly.

The plantation areas will be fenced with barbed wire fencing on wooden fence posts. A total of **400 ha.** area has been identified for treatment under this component as per detail given in **Indicative list Annex.XV(d)**. Out of the total 195ha. have been identified in Rampur Forest Division and **205 ha.** in Ani Forest Division. As per cost norms given in **Annex. V & VI**. The lumpsum cost of the fence post along with protection cost has also been provided in the cost model. Cost per hectare comes to **Rs.30,200** including maintenance for 5 years. Total cost of this component works out to **Rs. 1,20,80,000(5.17%)**.

Table No. 6.3

Expenditure for Assisted Natural Regeneration:-

1. Initial cost of raising plantations over 400 ha. @ Rs.22500/- =	Rs. 90,00,000/-
2. Maintenance cost for 5 years	
1st year maintenance over 400 ha. @ Rs. 1900 =	Rs. 7,60,000/-
2nd year maintenance over 400 ha. @ Rs. 1650 =	Rs. 6,60,000/-
3rd year maintenance over 400 ha. @ Rs. 1450 =	Rs. 5,80,000/-
4th year maintenance over 400 ha. @ Rs. 1,400 =	Rs. 5,60,000/-
5th year maintenance over 400 ha. @ Rs.1,300 =	Rs. 5,20,000/-
G.Total:-	<u>Rs 1,20,80,000/-</u>

d) Development of Medicinal Plants:-

One of the major factors impacting the effective conservation of forests is the dependence of rural communities on the forest biomass resources for meeting their fuel, fodder, small timber and other livelihood needs. While schemes to augment availability of fuel wood, fodder, small timber have attracted much attention, the need to address the livelihood issue by encouraging forest based enterprise has not received the desired attention. Propagation of Medicinal Plants is an innovative land use strategy to address the livelihood issues of local people on sustainable basis as it provides

alternative income generation activity. Moreover, this will help in in-situ conservation of Medicinal Plants. With this purpose, medicinal herbs like Karoo, Dhoop, Chora, Salam Panja, Dioscorea, Patish, Bankakri, Ratanjot, Nihani, Muskwala etc. will be propagated under this component. 2000 plants per hectare will be raised in the selected areas. The plants can also be raised as intercrop in the other plantation areas taken for tree plantations. Under this component 170 hac. shall be taken up for development of NTFPs. Out of this 80 hac. will be treated in Rampur Forest Division and 90 hac. in Ani Forest Division at a total cost of Rs. 68,17,000(2.92 %). The per ha cost modal is given at Annexure VII&VIII and the cost comes out to Rs.40,100/- per ha. including maintenance for 3 years. The plantation areas will be fenced with barbed wire fencing on wooden fence posts. Operation of fencing will be carried out only when an area is closed exclusively for NTFP Plantation. If NTFP plants are grown in already fenced area the saving thereof will be utilized in additional areas. The lumpsum cost of the fence post along with protection cost has also been provided in the cost model.

Table No. 6.4

Expenditure for Development of Medicinal Plant:-

1. Initial cost of raising plantations over 170 ha. @ Rs.29300/- =	Rs.49,81,000/-
2. Maintenance cost for 3 years	
1st year maintenance over 170 ha.@ Rs. 4700 =	Rs.7,99,000/-
2nd year maintenance over 170 ha. @ Rs.3300 =	Rs.5,61,000/-
3rd year maintenance over 170 ha.@ Rs. 2800 =	Rs. 4,76,000/-
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G.Total:-	Rs.68,17,000/-
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6.3.3. PASTURE IMPROVEMENT

The alpine pastures have their own significance in the geophysical, environmental and socio-economic conditions of the tract. They are spread on the natural slopes and form considerable portion of the catchment being dealt in this plan. They are the main source of herbage/ roughage for the cattle, sheep and goats. These areas have been subjected to severe human interference where continuous and uncontrolled grazing has led to elimination of palatable grasses/ legumes and dominance of unpalatable and undesirable grasses and bushes. These pastures are extensively grazed during summers. As a result of continuous and heavy pressure of grazing, barren patches have developed over vast areas and soil erosion is rampant in these alpine pastures. The herbage species found in these lands represent third or fourth stage of degradation. The present level of production of most of these pastures is about one-fourth of their actual potential.

The major impediment in taking up these lands for treatment is the reluctance of local people for allowing the closure as that will deprive their cattle of grazing land, not-with standing their poor condition. In such circumstances any plan to rehabilitate such lands must have the willing support of local people otherwise the effort is doomed to fail. The closure of such areas has necessarily to be for as short a period as possible.

The condition of low-lying pasture lands near the villages is even worse. They have been reduced to merely exercising grounds for the cattle with very little productivity. The pressure on these pastures is very acute and calls for urgent rehabilitation measure to restore

their productive status, and must give some intermediate yield of fodder during the closure period itself.

Keeping in the view the different approaches required to be adopted in high lying alpine pastures and the low lying village pasture, separate sub components are proposed for these two areas.

a) ALPINE PASTURE

Grazing management of these pastures consists of wise and skilful manipulation of two basic biological systems, the herbage available for grazing and the grazing animal. Owing to traditional rights of the graziers, it is difficult to restrict the number of animals grazing there. Thus the only alternative left is to increase the productivity of these pastures to cope with the grazing pressure. The treatment of these areas will consist of eradication of obnoxious weeds, application of fertilizers and strip sowing of improved variety of grasses. 800 patches of 60x60x25cm will be prepared per hac. for grass sowing. No barbed wire fencing is feasible in these areas due to their remotness and the area will be protected with the help of thorny bushes available in the vicinity. Since only grass is to be sown, hence no maintenance is proposed. Out of **total 3,200 hac.** approximately pasture area available in the catchment, it is proposed to treat **125 hac.** badly depleted area Out of this **25 Ha.** of the area has been identified for treatment in Rampur Division and rest **100 ha.** in Ani Forest Division. Cost model is given at **Annexure-IX.** As per cost model, per ha cost works out to **Rs 8,800.** The total cost of the component comes to **Rs.11,00,000/- (0.47%).**

b) LOW LYING PASTURE

The low-lying pasturelands will be taken up for treatment under silvo-pastoral model. Area will be closed and staggered trenching of size 30x30 cm will be dug over the area to be treated. About 400 running meters of trenches will be dug per hectare. Improved variety of grasses will be sown on the berm of the trenches. In the space between the trenches, fodder tree species like Leucaena, Robinia, Beul, Willow, Morus etc shall be raised. 500 fodder plants will be planted per hectare and subsequent treatment / maintenance for 5 years under this component as per detail given in cost structure is given in **Annexure-X & XI.** Per ha cost of treatment works out to **Rs. 38,200/-** including maintenance for 5 years. The plantation areas will be fenced with barbed wire fencing on wooden fence posts. Under this component **240 hec.** area shall be taken up. Out of this **80 hac.** will be treated in Rampur Forest Division and **160 hac.** in Ani Forest Division at a total cost of **Rs. 91,68,000(3.92%).** The lumpsum cost of the fence post along with protection cost has also being provided in the cost model.

Table No. 6.5

Expenditure for Improvement of Low Lying Pastures:-

1. Initial cost of raising plantations over 240 ha. @ Rs. 27250/-	=	Rs.65,40,000/-
2. Maintenance cost for 5 years		
1st year maintenance over 240 ha. @ Rs. 2850 =		Rs. 6,84,000/-
2nd year maintenance over 240 ha. @ Rs.2300 =		Rs. 5,52,000/-
3rd year maintenance over 240 ha. @ Rs.2100 =		Rs. 5,04,000/-
4th year maintenance over 240 ha. @ Rs. 1,950 =		Rs. 4,68,000/-
5th year maintenance over 240 ha. @ Rs. 1,750 =		<u>Rs. 4,20,000/-</u>
G.Total:-		<u>Rs.91,68,000/-</u>

6.3.4. SUBSIDIARY SILVICULTURAL OPERATIONS

The forest areas, which have been managed under the silviculture management system under the scientific management in the past, have resulted into good regeneration. The same also applies for similar other areas where either plantations or the closure has resulted into good regeneration. If the profuse regeneration in Deodar, Chil & fir/ spruce forests is not properly tended, there is likelihood that the crop will turn weak and will not mature into a good well developed crop such areas will be taken up for the subsidiary silvicultural operation like cleanings, climber cutting, slash disposal and debris collection / burning etc to improve the growth conditions and hygiene of the forest. A provision of **Rs. 2500/- per ha** has been made for carrying out these works in **380 hac.** of the identified forests. Out of this **200 hac.** will be treated in Rampur Forest Division and **180 hac.** in Ani Forest Division at a total cost of **Rs. 9,50,000(0.41 %).**

6.3.5. SOIL & MOISTURE CONSERVATION WORKS

a) STABILIZATION OF ACTIVE LAND SLIDES

After carrying out detailed survey the following area has been identified as seriously eroded in the catchment which needs to be stabilized. Some of the sites in the catchment are under the active process of the slides, and are rapidly extending to engulf forest land. A total of 71 sites requiring stabilization have been identified out of these 37 no. fall in Rampur Forest Division and 34 no. in Ani Forest Division as per detail given in Indicative list of slips identified and given in the plan. Stabilization measures like check walls, protection wall in create wire will be under taken in such areas. Besides these engineering measures, wherever required, grasses and shrubs will be planted. Vegetative shrub barriers, brushwood check dams etc shall also be erected as per site requirement. The provision for each site has been made lumpsum on the basis of rough preliminary estimation in the field. However, detailed estimates will be prepared at the time of execution of work as per the requirement of each site. A total amount of **Rs. 2,15,44,200/- (9.22%)** has been provided for this component. Out of this total **Rs. 91,50,000/-** have been provided in Rampur Forest division and rest of amount **Rs. 1,23,94,200/-** for Ani Forest Division. Indicative cost models for 2mt, 3mt, and 5mt, 7mt, Long check wall and 10mt. protection wall, which will form the bulk of engineering measures, have been given at **Annexure –XII a,b,c,d, XIII.** The actual size may vary as per site conditions.

The details of land slide / slip areas identified for treatment are given in the indicative list given in the Plan as **Annexure XVI.**

b) TREATMENT OF NALLAS

About 150 no. of nallahs are required to be treated in the catchment area. Out of these 99 no. fall in Rampur Forest Division and 51 no. in Ani Forest Division as per table given below. The basic purpose of these measures will be to check the velocity of runoff, detention of silt and prevention of cutting of banks. The detail of these nallas is given in table below. Besides these main nallas some minor nallas have also been proposed for treatment. An indicative list of nallas is also given in the plan. The treatment will include bio-engineering measures like check dams, protection wall, silt detention dams, vegetative shrub barriers, brushwood check dam etc. Planting of grasses, shrubs and trees will also be done on the banks wherever feasible. Provision for treatment of each nalla has been done on the basis of rough estimation but the actual work will be done after preparing detailed estimates as per spot requirement.

An outlay of **Rs. 4,16,80,000/- (17.83%)** has been provided for this component. Out of this total **Rs. 1,41,20,000/-** have been provided in Rampur Forest division and rest of amount **Rs. 2,75,60,000/-** for Ani Forest Division.

The details of nallahs identified for treatment are given in the indicative list given in the Plan as **Annexure XVII**.

c) ROAD SIDE EROSION CONTROL

Some of the roads constructed in the tract are the potential sources of erosion /land slips. The loose excavated material dumped along the road also needs to be stabilized to prevent its flow to the river with runoff. These road stretches will be stabilized by appropriate engineering structures as also biological measure where necessary and feasible. Rough estimate for requirement of funds for each such stretch of road has been calculated and a total amount of **Rs. 11,24,000/- (0.48%)** is proposed to be spent on this component. Work will be carried out as per detailed estimates to be prepared at the time of actual work. Out of this total **Rs. 4,50,000/-** have been provided in Rampur Forest division and rest of amount **Rs. 6,74,000/-** for Ani Forest Division.

Details of road identified for treatment are given in **Annexure XVIII**.

6.3.6. AVENUE PLANTATION AND LANDSCAPING

Work will be carried under this component to improve the visual aesthetics in and around project sites. Tall planting of ornamental plants will be done at suitable places. These tall plants will be raised in suitable containers like gunny bags or bigger sized polythene bags to accommodate the tall plants. The size of the pits for planting of these plants will also be of bigger size and will be filled with rich mixture of soil and manure for fast growth and establishment. Each plant so planted will be protected individually or in groups by employing site specific protection mode like tree guards, barbed wire fencing, thorny bush fencing or any other suitable method. The plants will also be watered in the period of drought to avoid mortality as also to give impetus to their growth. In essence, all efforts will be made to achieve early establishment and rapid growth of these plants. The required plants may also be procured from commercial sources if they can not be expeditiously raised in the existing departmental nurseries. A lumpsum norm of **Rs. 120/- per plant** is fixed for this component. No provision for maintenance of these plants in subsequent year is being made as no maintenance is anticipated. Still, if any such eventuality arises, the funds may be released out of contingencies component.

Apart from avenue plantation, some land scaping will also be done under this component around project sites. The total outlay under this component is **Rs. 3,57,600 (0.15%)**. Out of this total **Rs. 1,20,000/-** have been provided in Rampur Forest division and rest of amount **Rs. 2,37,600/-** for Ani Forest Division. Details of Avenue Plantation and Landscaping are given in **Annexure - XIX**.

6.3.7. FOREST INFRASTRUCTURE DEVELOPMENT

For optimum management of the forest resources of tract, it is essential that the field infrastructure of forest department is adequately developed. The forest roads and paths in the region are the important lines of communications in this difficult terrain and to keep them in serviceable condition is highly desirable. But due to paucity of funds, many of these roads/paths are in a state of neglect and need repairs to facilitate efficient forest management. Similarly is the case of forest buildings which are in a dilapidated conditions which will also be repaired. Besides this a provision for construction of community centre at

Nogli / Rampur has also been made in the plan. A total amount of **Rs. 1,00,35,000/- (4.29%)** has been proposed under this activity.

a) Repair of Forest Path

After detailed survey the following roads and paths have been identified which need repair, to facilitate efficient forest management. A provision of **Rs. 16,10,000/ (0.69%)** for roads has been proposed under this component. Out of this total **Rs. 7,55,000/-** have been provided in Rampur Forest division and rest of amount **Rs. 8,55,000/-** for Ani Forest Division. Detail of such sites identified for treatment under this component is given in the **Annexure- XX (a)**.

b) Repair / construction of operational buildings

The forest buildings which need urgent repair / maintenance has been identified after carrying out detailed survey to support the forest field staff. A provision of **Rs. 51,00,000/- (2.18%)** for repair / construction of building has been proposed under this component. Besides this a community centre will also be constructed at Nogli / Rampur. Approximate amount of **Rs. 20,00,000/-** has been kept for this purpose. Out of the total amount under this component, **Rs. 32,50,000/-** have been provided in Rampur Forest division and rest amount of **Rs. 18,50,000/-** for Ani Forest Division. A Farming training and information center (Chetna Kendra) with sufficient motivation material is proposed to be opened at Nogli / Rampur and provision for this purpose have been made and given in the year-wise schedule. Detail of such buildings identified for maintenance and creation of Farming training and information center under this component is given in the **Annexure-XX (b)**.

c) Farm Ponds

31 Nos of farm ponds, **13 nos** in Rampur and **18 nos** in Ani Forest Division will be constructed in the forests. A provision of **Rs. 775000/- (0.33%)** has been kept for this purpose. Out of this total **Rs. 3,25,000/-** have been provided in Rampur Forest division and rest of amount **Rs. 4,50,000/-** for Ani Forest Division. The detail of these farm ponds is given in the **Annexure-XX (c)**.

d) Soil and Water Harvesting Structure

17 numbers of soil and water harvesting structures, **8 nos.** in Rampur and **9 nos.** in Ani Forest Division will be constructed in the project area to conserve and optimize the use of available surface flow. An amount of **Rs. 25,50,000/ (1.09%)** has been provided for this purpose. Out of this total **Rs. 12,00,000/-** have been provided in Rampur Forest division and rest of amount **Rs. 13,50,000/-** for Ani Forest Division. The location for construction of these soil and water harvesting structures are given in the **Annexure-XX (d)**.

6.3.8. RURAL INFRASTRUCTURE DEVELOPMENT

The Project activities may result in disruption/damage to the rural infrastructure and some are in the state of degradation like village paths, springs, traditional water sources, bridges, minor irrigation channels etc. It is, therefore, imperative that CAT Plan supports the restoration/ up gradation of such infrastructure in the Project area. While such measures will mitigate the hardship of the local population, it will also motivate them to lend their support and participation in other eco up-gradation works. The following intervention have been identified under this component. The rough estimate of amount required for each such work has been made and amount provided accordingly. However, detailed estimates as per site conditions will be prepared at the time of actual execution of the work and fund utilized

Accordingly, the quantity of each work to be carried out has been given in the year wise work schedule and is also given in the table mentioned against each item of work. The total amount of **Rs.1,13,30,000(4.85%)** has been provided for this activity.

a) Village ponds/ tanks

The sites have been selected for construction/ repair of village ponds/ tanks for the benefits of local human populations as well as cattle. An amount of **Rs.14,70,000 (0.63%)** have been provided for this component. Out of this Rs. 7,00,000/- will be spent in Rampur Forest Division and Rs. 7,70,000/- in Ani Forest Division. The sites identified for construction of village ponds / tanks is given **Annexure-XXI (a)**.

b) Repair of Springs, bawaries and other water sources

The supply of potable water is available in most of the villages in the Project area but the supply of uninterrupted good quality water is rather erratic. The problem becomes more acute when drought conditions are experienced when water sources are dried up. Drinking water for cattle is another problem which need attention. Traditional water sources like springs, bawaries etc. are of immense help in such condition. However most of such sources are in dilapidated condition due to lack of maintenance/ repair. It is proposed to repair such water sources to augment the potable water supply in the tract. The number bowries/ springs have been identified in the Project area which need repair/ renovation as detailed in the year wise work schedule. A sum of **Rs.20,00,000 (0.86%)** is proposed to be utilized on this account. Out of this Rs. 10,00,000/- will be spent in Rampur Forest Division and Rs. 10,00,000/- in Ani Forest Division. The sites identified for repair of Springs, bawaries and other water sources is given **Annexure-XXI (b)**.

c) Repair of Village road and paths

Restoration work of Village roads/ paths will be undertaken in the Project area. Only existing rural, block, panchayat roads/ paths will be taken up for improvement which will essentially consist of soling, paving, providing cross drainage, retaining wall, side drain etc. Number of such roads/ paths have been identified for improvement at a total cost of **Rs.53,60,000(2.29%)**. Out of this **Rs. 32,85,000/-** will be spent in Rampur Forest Division and **Rs. 20,75,000/-** in Ani Forest Division. The sites identified for Repair of Village road and paths is given **Annexure-XXI(c)**.

d) Construction of foot bridges

The identified bridges/ foot bridges given in the yearwise working schedule and in **Annexure-XXI-(d)** at a total cost of **Rs. 25,00,000(1.07%)** will be constructed / repaired to improve the village communication network. Out of this **Rs. 10,00,000/-** will be spent in Rampur Forest Division and **Rs. 15,00,000/-** in Ani Forest Division.

6.3.9. TREATMENT OF PRIVATE LAND

Some private lands are also in the state of degradation owing to their vulnerability to erosion. The CAT Plan will support the improvement of such private lands by contour bunding, terrace repairing and minor engineering works, so that they may not become the source of soil erosion. However intensive improvement measures on the individual lands will be avoided under this component and only minor interventions will be done to motivate beneficiaries. Lump-sum provision of **Rs. 15.0 Lacs. (0.64%)** has been made for this component and work will be done as per site condition after selecting appropriate areas with the consent of public as well as VFDC. Out of this **Rs. 5.0 Lacs.** will be spent in Rampur Forest Division & **Rs. 10.0 Lacs.** in Ani Forest Division. The detail is given in **Annexure-XXII**.

6.3.10. FUEL SAVING DEVICES

To reduce the dependence of local people on the forest for their fuel wood requirement, fuel saving devices in the form of LPG stoves, pressure-cookers will be distributed and beside this improved crematoria will be constructed. Since poor strata of society in the project area is more dependent on forests for their fuel wood requirements, the distribution will be done only to the selected IRDP families in vulnerable areas where forest are at a risk due to fuel wood pressure. Expenditure on construction of 21 number crematoria at the cost of **Rs. 15,75,000/- (0.67%)** has been kept under this sub-component and detail of areas identified where these will be constructed is given in the **Annexure-XXIII-(a & b)**. Distribution of LPG connections and pressure cookers will also be borne under this sub-component and an outlay of Lumpsum **Rs. 2,30,000/- (0.1%)** has been earmarked for this purpose. The total cost of **Rs. 18,05,000/- (0.77%)** has been laid down for this component.

6.3.11. RAIN WATER HARVESTING

In order to conserve and utilize the rain water 14 no. of sites has been identified for construction of rain water harvesting structures. An outlay of **Rs. 15,25,000/- (0.65%)** has been kept under this component. The sites identified for the construction of rain water harvesting structure is given in **Annexure-XXIV**.

6.3.12. WILDLIFE IMPROVEMENT

Many of the communities living in the interior areas of this tract generally occupy forest fringe region where for a long period in their history, they have lived in isolation but in complete harmony with the nature. They draw their sustenance largely from the forests for their day to day consumption and their livelihood. Their life is connected in one way or the other with forest and wild-life, right from birth to death. We can not deny their needs as these people live in harmony with the forests. At the same time, it is essential that there is no adverse impact on the Wildlife habitat and the delicate equilibrium between the two is maintained in future also. In order to achieve these objectives and reduce the pressure on Forests & Wildlife as also to maintain ecological balance, the following activities are proposed to be carried out under this CAT Plan. An outlay of **Rs. 47.10 Lac. (2.02%)** has been kept for this purpose.

(A) INTENSIVE MANAGEMENT OF WILD LIFE SANCTUARY

- (i) **Protection of Forest and Wild Life**
 - (a) Repair of existing boundary pillars
 - (b) Improvement of Wireless Communication System
 - (c) Purchase of fire fighting equipment.
 - (d) Debris Disposal
 - (ii) **Veterinary Facilities/Vaccination of Domestic cattle**
 - (iii) **Reward/incentives to the informers**
 - (iv) **Anti poaching activities**
 - (v) **Habitat improvement**
 - (vi) **Nature awareness camp**
 - (vii) **Wild Life Census operation in outside protected area.**
 - (viii) **Sign and Slogan Board**
- #### (B) ECO DEVELOPMENT ACTIVITIES
- (i) **Village Support Activities.**
 - (ii) **Development of NTFP.**

- (iii) **Eco Tourism Activities.**
- (iv) **Income Generation Activities (Vermi Composting etc.)**

An outlay of **Rs. 23,85,000/- (1.03%)** under Intensive Management of Wildlife and **23,25,000/- (0.99%)** under Eco Development Activities has been proposed to be incurred during the plan period.

(A) INTENSIVE MANAGEMENT OF WILDLIFE SANCTUARY

(i) Protection of Forest and Wildlife

(a) Repair of existing boundary pillars

Repair of existing boundary pillars of the forest covering in the CAT PLAN area will be maintained and an Outlay of Rs. 1,50,000/- has been kept for this purpose. So that the areas are protected from encroachments near the cultivations.

(b) Improvement of Wireless Communication System

The existing wireless system lying in the two divisions viz. Rampur and Ani will be made effective and an outlay of Rs. 1,25,000/- has been kept for this purpose, in order to protect the wildlife from hunting, poaching and illegal trade. Walkie-Talkie set / Mobile phone will be provided to each forest guard at suitable places.

(c) Fire Fighting Equipment

In order to protect forest and wildlife from fire an outlay of Rs. 1,50,000/- has been kept for this purpose and modern fire fighting equipment will be purchased. Beside this the existing fire line, forest path / inspection path will also be cleared in order to check the forest from fire.

(d) Debris Disposal

Some of the existing forest which are full of debris where contract / HPFSC works has been carried out in the past will be cleared in order to have clean bed in the forest. An outlay of Rs. 2,00,000/- have been purposed to be spent under this activities.

(ii) Veterinary Facilities/Vaccination of Domestic cattle

The local people have grazing rights in and around the sanctuary area. It is therefore necessary to immunise the domestic cattle against contagious disease like foot and mouth etc. It will prevent disease from spreading from domestic cattle to wild animals and vice versa. In addition to these it is necessity to purchase immobilization equipment and medicine for Wild Life Management. The equipments will help in capturing of animals where ever their is some main-animal conflict and release them in their natural habitat. Therefore an amount of Rs. 2 lakh has been proposed during this plan period.

(iii) Reward/incentives to the informers

Reward/ incentive to the informers are required for proper protection of the forest area against poaching and illicit felling. Forest guards alone are helpless to protect or detect wild life offences. By providing the informers suitable rewards and incentives the department gets clues from these people. It is necessary to make people aware about the biological, ecological hardship which the bio-diversity of the forest area is facing. Therefore the people should be encouraged by providing them reward/ incentive for giving information about the offender/culprits. It is also ensured that informer's name should not be disclosed publicly or otherwise people will not dare to come forward on this issue. An amount of Rs. 1,50,000/- is proposed to meet this purpose during the plan period.

(iv) Anti poaching activities

The forest area is required to be guarded against poaching throughout the year. In order to curbe such nefarious activities of poachers, anti-poaching measures like joint patrolling is to be organized by engaging ex-serviceman, JFMC's and local un-employed youth. Local youth are to be trained and engaged to give assistance to field staff and clues regarding poaching in the forest area. An amount of Rs. 2,00,000/- is proposed during the plan period for this component.

(v) Habitat improvement

Since all wild life in nature live in complex web of linkage with other organisms, the proper evaluation of habitat of each species followed by its proper management is very essential. The plant life provides congenial home to wild life and bio-diversity, therefore the habitat of wild life is to be improved by undertaking planting and other works.

For this purpose bushy shrubby and thick forests are to be maintained and no grass should be removed from the habitat of wild-life. In degraded forest area the suitable species i.e. bamboo planting and fruit bearing species will be carried out as per site/ location, the bank area in the forests especially in high reaches along ridge should be maintained as pasture land by sowing suitable local grasses for the benefit of wild animal. Besides this water pond/ hole should be constructed wherever these are required. An outlay for Rs. 6,50,000/- has been proposed to be incurred during the plan period on such activities.

(vi) Nature awareness camp

It is essential to make people, school children aware about the importance for the success of wildlife management. It is proposed to impart education by organizing awareness campaigns / camps and touring in various zoos, peasantries and national parks for all section of society / general public. An outlay for Rs. 2,00,000/- has been proposed to be incurred during the plan period.

(vii) Wild Life Census operation outside protected area

It is proposed to carry out wild life census in the key areas, to know the density of key species so that these can be further improved and developed from management point of view. The census should be carried in alternative year. Therefore an amount of Rs. 2,00,000/- is proposed for this purpose.

(viii) Sign and Slogan Board

It is recommended that the sign and slogan boards must be put up at selected sites. All these sign and slogan boards must be in Hindi language in the form of an appeal to the local people, telling them the importance of wild life conservation and provisions of Wild Life Protection ACT, 1972 and IFA, 1927 and F.C Act, 1980 etc. Therefore an amount of Rs. 1,60,000/- has been proposed for this purpose during the plan period.

(B) ECO DEVELOPMENT ACTIVITIES

(i) Village Support Activities / including sanitation etc.

In order to reduce the pressure on forest and wild life, it is proposed to provide alternate sources like G.I. pipes for installation of religious flags, solar street light, solar cooker, smoke less chullah, gas cylinder, crematoria, sulabh shauchalaya, iron plough for the villagers etc. in and around the Plan area. By providing these alternative resources, the pressure on the forest would be reduced. Otherwise in the name of house construction and repair and also other works the villagers/ right holder cut minimum 3 to 4 trees by way of T.D per family at concessional rate under the provision of Forest Settlement Report 1921. The provision of Rs. 12,50,000/- has been kept under this component for this activity during the plan period.

(ii) Development of NTFP.

One of the major factors impacting on the effective bio- diversity conservation is the dependence of forest communities on the forest bio mass resources for meeting their fuel, timber and livelihood. Local people have a right to collect/ extraction of Minor Forest Produce in and around the forest area under provision of Forest Settlement Report, 1921. Although a four years collection cycle has been prescribed by the H.P. Forest deptt. but people extract MFP from forest area on year to year basis for domestic use and their livelihood, thereby threatening the very existing of the rare and endangered species of medical herbs. Therefore it is need to address the livelihood issue by encouraging forest based enterprises for development. NTFP are required on the sustainable basis as it provides alternative income generation activities. Under this scheme medicinal herbs like Dhoop, Karoo, Salam Panja, Ban kakri, Patish, Banaksha, Shingli-Mingli etc. will be raised. Therefore, an amount of Rs. 3,75,000/- has been proposed for this purpose during the plan period.

(iii) Eco-Tourism Activities

The tract besides having vast hydroelectric potential is also known for its scenic beauty and splendour and is frequented by a large number of tourists every year. Keeping in view this, beautification of the water channel at Sarahan (near Baghipul), maintenance of path leading to "Shrikhand Mahadev" and Daranghati Sanctuary is proposed to attract tourists. An amount of Rs. 2,00,000/- has been proposed for this purpose during the plan period.

(iv) Income Generation Activities (Vermi Composting etc.)

Vermi composting is one of the alternative source of income which is easy to adopt, home based and can bring fast income returns to the local people in an eco friendly manner. Forest department and horticulturist will be a potential buyer of all such compost for its vast network of orchards / Forest Nurseries. Woman organization of the tract can adopt these activities on part time bases without compromising with their day to day work. An amount of Rs. 5,00,000/- has been proposed for this purpose during the plan period.

6.3.13. FOREST PROTECTION

Fire protection is the most important factor affecting the management of forests. It is extremely important that the forest and wildlife are protected from the fire. The goodwill and co-operation of the local people is essential for successful protection of the flora and fauna. The people of the tract will be educated through films, lectures, pamphlets, posters and talks about the benefits of the wealth of the forest and wildlife etc. under forest protection. The following measures are suggested to protect the valuable forest / wildlife of the tract from the forest fire. An outlay of Rs. 25,48,000/-(1.08%) is proposed to be incurred during the plan period.

- A) Clearance of Fire Line
- B) Engagement of Fire Watchers
- C) Purchase of Fire Fighting Equipments
- D) Construction of Watch Tower
- E) Construction of Gang Hut
- F) Improvement of Communication System

A) Clearance of Fire Line

The existing fire lines will be cleared as such by cutting and burning of bushes every year. An outlay of Rs. 95,000/- will be spent on this component. Beside this all the B/Path, Inspection path and Contour path passing through the forest shall be kept clear during the fire season. The detail of the fire lines to be maintained in Rampur and Ani Division is given in **Annexure-XXV(a).**

PROVISION OF FIRE WATCHERS AND FIRE FIGHTING SQUADS

Adequate number of fire watchers will be engaged during the fire season to assist the territorial staff in preventing and fighting forest fire. All the fire watchers will be provided with rakes, showels, slashers and felling axes etc. and ask to keep all the paths, road and fire lines clean. Control burning during the winter will also be carried out every year particularly in the fire prone areas. They will be made to patrol their areas intensively. In addition to this Fire fighting squads will also be engaged during the fire seasons for which separate amount of Rs. 6,00,000/- (Rs. 3,00,000/- for each division) has been kept. An amount of Rs. 8,52,000/- will be spent during the plan period on these activities. The detail of Fire watchers along with provision of fire fighting squads is given in **Annexure-XXV(b)**.

C) Purchase of Fire Fighting Equipment

The modern fire fighting equipment will be purchased and provided to the staff in order to fight the forest fires. An outlay of Rs. 1,50,000/- will be spent during the plan period. The following table indicates the detail of modern fire fighting equipment to be purchased and provided to the staff particularly in the fire prone areas. The detail of Purchase of fire fighting equipment is given in **Annexure-XXV(c)**.

D) Construction of Watch Tower

Two no. of watch towers one at Rampur and another at Ani Forest Division will be constructed at a strategic point. An outlay of Rs. 3,51,000/- has been provided for this purpose.

E) Construction of Gang Hut

Two no. of Gang Huts one at Rampur and another at Ani Forest Division will be constructed at a strategic point. An outlay of Rs. 8,00,000/- has been provided for this purpose.

F) Improvement of Communication System

Network of roads, bridal path and inspection paths are necessary to facilitate quick assembly of people to fight forest fires. Installations of wireless, telephone at range headquarter and at few strategic places will be provided, which shall be very helpful in promptly locating and reporting the fires, thereby preventing / minimizing the forest fire / losses. A provision of Rs. 3,00,000/- has been kept for this purpose.

6.3.14. TRAINING AND STUDY

In order to tackle the ecological problems, motivation, education & confidence building through a strong extension programme has to be evolved for the local populace and also for the graziers dependent on the pasture eco-system. The extension workers and field staff need to be trained in joint forest management and extension methodology. Focus on social & institutional aspects need a substantial re-orientation in vision, thought process, work culture & ethics, mentality and attitudinal behavior at all levels. Whatever technology is worked out through common dialogue would be the best. The consent and active participation of the local populace is a must for closure, treatment and development.

Funds will be allocated to implementing agencies who will determine priority study areas with focus on resolving plan implementation problems. The implementing agency will contract both appropriate agency/ institutions to conduct the research activities. Institution like HFRI Shimla will be actively involved in the studies. Priority will be given to undertake research in following matters:-

- i) Identification of effective combinations of vegetative and structural measure to stabilize land slide and drainage lines.
- ii) Techniques for controlling obnoxious weeds in pasture lands.
- iii) Run off and soil loss studies.
- iv) Efficient use of surface water resources.
- v) Identification of alternative afforestation, silvipastoral models.
- vi) Reclamation /afforestation of mined sites and dumping sites.

Towards this objective, provision of **Rs. 5,00,000/- (0.21%)** has been made for capacity building and skill up-gradation of local communities and institutions like Mahila Mandals, Yuvak Mandals, Panchyats, Environmental Groups and other community based organizations (CBOs) in natural resource managements. This will be done by way of exposure visits, seminars, workshops, publications, hoardings and other mass communications measures. Specialized training and study tours in India and abroad shall also be arranged for forest officials for implementing the plan.

Training of officers is required in soil and water conservation, pasture development etc. for which various training centers would be identified. The objective of this training component would be provide the people and staff working in the plan area to augment their existing skills, build partnerships, provide forums for exchange of information's, experiences and ideas in order to achieve the over all plan objectives by effective implementation of the plan. Annual allocation under this component has been indicated in the year wise work schedule. However this annual allocation is only indicative and actual funds required on this account will be sought for annually after finalization of activities for that year as per requirement in the field.

6.3.15. AWARENESS AND PUBLICITY

Wide publicity through posters, notice boards, films shows and slide shows is to be done. People must be educated to respect the environment. Local villagers will also be made aware of the importance of soil conservation and encouraged / assisted and trained in adopting improved agricultural, horticultural and animal husbandry practices in their private lands. They being the important stake holders in the environmental rehabilitation of the tract need to be sensitized and made partners in the maintenance of assets and interventions made through this CAT plan to make them sustainable. Towards this objective, provision of **Rs. 20,00,000/- (0.86%)** has been made in the plan.

6.3.16. OPERATIONAL SUPPORT

Support will be provided to the implementing agency in the form of Esstt. Charges, Office Expenses, Travel expenses, Office Equipments, the Operational cost of vehicles, Amenities to staff and labour and the Vehicles to be provided in kind along with the cost of POL etc. to meet up additional responsibilities of the implementation of the CAT Plan. Apart from this, it has been provided in the plan to attach two Vehicles with Ani and Rampur divisions by user agency during the implementation period. The approximate amount likely to be incurred on account of this provision has been included in the CAT Plan and this amount will remain with the user agency for meeting the expenses on this facility. However if the amount provided falls short even then the user agency will meet up this obligation from its own resources so that the vehicles for operational mobility remains attached with the respective

Divisions atleast for the first five years. A total outlay of **Rs. 1,03,50,000/- (4.42%)** has been made to meet up all the requirements of this component as per detail given in the year wise work schedule.

6.3.17. AGRICULTURAL SUPPORT

Agriculture is the main occupation of the people in the Project area. The farm lands are generally poor in productivity. More over, the problem of agriculture and forestry circle are interdependent and have influence over economic well being of the masses and local eco system. It is thus imperative that appropriate technological interventions made in agriculture sector to have a harmonious effect on the environment. Some such interventions which shall be compatible with the objectives of this CAT Plan are as under:-

- (i) Increasing on- farm fodder production.
- (ii) Adoption of recommended agronomic practices.
- (iii) Propagation/distribution of improved variety seeds.
- (iv) Popularizing and demonstrating balanced use of fertilizers and pesticides.
- (v) Vegetable seeds and technology demonstration.
- (vi) Raising of temperate and tropical fruit plants on marginal lands.
- (vii) Improved tools.
- (viii) Food/fruit processing.
- (ix) Grain storage.

The above list of intervention is not exhaustive but only indicative. Any other appropriate measures in consonance with the achievement of objective may be employed. An outlay of **Rs. 15,00,000/-** has been kept for carrying out the above works. Out of this, **Rs.7,50,000/-** have been provided each to Rampur and Ani Forest Division.

In addition to above interventions, irrigation facilities / potentials will also be improved after carrying out detailed survey and consultation with the local bodies during the implementation of the CAT Plan. For this purpose an amount of **Rs. 45,00,000/-** have been earmarked for improvement of existing irrigation channels / Kuhals which are in dilapidated conditions. Out of this total, **Rs. 17,50,000/-** have been provided in Rampur Forest Division and the rest of amount **Rs. 27,50,000/-** for Ani Forest Division.

Thus, a provision of **Rs. 60,00,000(2.57%)** has been made to carry out the works under this component to provide the agricultural support in the project area.

6.3.18. HORTICULTURAL SUPPORT

Himachal Pradesh is known for its horticulture crop particularly the Apple crop which has made the people of the tract prosperous. Horticultural is the main occupation of the people in the Project area. New interventions are require to boost the economy of the people of the project area by providing good variety of horticultural plants. Beside this the horticulture department is required to impart modern technology to the people of the project area in order to increase the crop. They should also provide medicines, fertilizers, spraying machine etc. to the local people. It is thus imperative that appropriate technological interventions made in horticulture sector to have a harmonious effect on the environment. Any other appropriate measures in consonance with the achievement of objective may be employed. A sum of **Rs. 15,00,000/-(0.64%)** has been ear marked to carry out the works in this component.

6.3.19. ANIMAL HUSBANDRY SUPPORT

Animal husbandry is an important occupation of the people of the area. Live stock practices are rather primitive in the project area. Mostly open grazing is practiced with little stall feeding and minimal fodder cultivation. A large number of unproductive cattle trample the grazing land resulting in severe damage to the vegetation and soil productivity. It is, therefore, required that need to keep large herds of unproductive cattle is reduced by demonstrating benefits of improved breed cattle to the local people and strengthening the animal husbandry infrastructure to support such a change. Some of the interventions which can be supported by this CAT Plan are as under:-

- (i) Demonstration of silage / Hay production.
- (ii) Supplementary feeding of cows.
- (iii) Mineral supplementation.
- (iv) Medicine and equipment support to existing veterinary health system.
- (v) Repair of sheds.
- (vi) Construction and operation of sheep dipping tanks.
- (vii) Introduction /distribution / demonstration of machines like chaff cutters, wool shaving machines etc.
- (viii) Organizing of cattle shows.
- (ix) Mobile veterinary care vans.
- (x) Construction of stalls.
- (xi) Marketing support for milk/wool sale.
- (xii) Mini Kits

Thus a provision of **Rs. 20,00,000(0.86%)** has been made under this component to provide animal husbandry support services in the project area.

6.3.20. CONTINGENCIES

Outlay for the various components has been worked out on the prevalent wage rate of Rs. 65/- & 8.33% increase which has recently been announced by the HP State which will be applicable to the laborers w.e.f. 08 / 2005 and market rates of the material prevailing as on today i.e. 1-4-2005. Since the CAT PLAN is to be implemented over a period of ten years, hence in order to absorb any future escalation in the cost of plan proposals on account of increase in wage or material rate etc., 10% contingency has been provided under this component. Beside this cost escalation factor, the funds provided under this component may also be utilized for misc. expenses/ minor works not fore-seen or provided in any of the components but are subservient to the achievement of the objective of the CAT plan. Minor repairs to the engineering structures to prolong their life and damage caused to the plantation due to natural calamities like fire etc. will be met out of this component. Such funds will be released by the Project Director –cum- C.F. Rampur out of this component on the receipt of the proposal from the concern Project Officer – cum - DFOs. All proposals for works to be under taken out of this component will be framed by the concerned implementing division and Project Officer –cum-CF Rampur shall be the final authority to approve the proposal and release the funds under this component. Lump-sum provision based on rough estimation has been made under some components especially for engineering structures. These works are to be undertaken after preparing detailed estimates as per actual works required to be done. Although efforts will be made to restrict the expenditure as far as possible to the allocated amount but slight excess or deficit may occur as the allocation is based on rough estimation. In such cases excess or deficit of one site may be adjusted against the othersite but the over all allocation should not be exceeded. Similarly any unspent amount left may be utilized by proposing additional works in consonance with the project objectives. The expenditure on account of auditing etc. should also be met with from the contingencies. The total outlay under this head is **Rs. 2,12,54,000/(9.09%)**.

Chapter VII TECHNICAL DETAILS OF CAT PLAN

7.1. SITE CONDITIONS

The physiography of the plan area is rather tough and gradients are moderate to steep and steep to very steep to precipitous. The soil is sandy to sandy loam with fragile-strata, therefore, problem of land slips and incidence of erosion is rather high, particularly where the land is not properly terraced. In the open and dry spaces nothing grows unless irrigation is provided. The condition of alpine pastures is degraded.

7.2. SPECIES

Choice of species depends upon climatic & edaphic factors and requirement of people. The list of species that can be produced in the plantation programme is given as under:-

Sr.No.	Local Name	Value	Botanical Name
1	Chil	Timber	Pinus-roxburghii
2	Kail	Timber	Pinus-wallichiana
3	Deodar	Timber	Cedrus Deodara
4	Rai	Timber	Picea smythiana
5	Fir	Timber	Abies pinderow
6	Robinia	Fuel/Fodder	Robinia pseudoacacia
7	Poplar	Fuel/Fodder	Populus ciliate
8	Willow	Fuel/Fodder	Salix species
9	Ailanthus	Fuel	Ailanthus species
10	Beuhal	Fuel/Fodder	Grewia oppositifolia
11	Khirak	Fuel/Fodder	Celtis australias
12	Shisham	Furniture/Fodder	Dalbergia sisso
13	Toot	Fodder	Morus alba
14	Banoak	Fuel/Fodder	Quercus incana
15	Drake	Fuel/Fodder	Melia azedirachta
16	Amaltas	Fuel/ornamental	Cassia fistula
17	Ritha	Fuel/detergent	Sapindus mukorossi
18	Mapple		Acer pictum
19	Bird Cherry		Prunus Cornuta
20	Siris		Albizzia lebbek
21	Akhrot		Juglans regia

7.3. AFFORESTATION

In forests where stocking and density is poor and in blank areas, rehabilitation will be carried out through afforestation by planting nursery raised seedlings and by patch sowing of Deo / kail etc. species. Looking to the high incidence of grazing during summer all the plantation areas will be fenced with barbed wire fencing fixed in stone pillars / wooden fence posts and irrigate by kuhls or by A/pipe where ever possible. Beside this gradonial trenches will also be prepared above pits so as to increase moisture regime as majority of areas purposed for taking up for plantation under this plan are relatively dry areas. Maintenance of these areas shall be done for 7 years.

7.4. TREATMENT OF ALPINE PASTURE

The alpine pastures would be improved by way of eradication of unwanted / unpalatable grasses and shrubs. The degraded pastures at lower elevations in the alpine zone need immediate attention and corrective measures to save them from serious damage. These impoverished pastures are to be closed for the animals and given proper soil conservation treatment and fertilizer application until there is adequate regeneration of grasses. and then sowing with suitable species of legumes and grasses will also be done in the prepared patches of 60x60x25cm. Beside this moisture retention interventions works will also be carried out. It is pointed out that continuous grazing is one of the main causes of deterioration of pasture lands, so this continuity in grazing will be avoided by the rotational grazing system.

7.5. DEVELOPMENT OF MEDICINAL PLANTS

The area is very rich in medicinal plants. So far not much scientific efforts have been made to preserve and propagate these plants. This is especially important when we are importing drugs from abroad worth crores of rupees every year. Not only this, but even to enable the expanding pharmaceutical industry in the country to put in the maximum output meeting the public demands, it is most essential that utmost attention is given to the production of raw materials for the industry at home.

Chief among the important medicinal herbs of the tract are:

Patish (Aconitum heterophyllum), Meetha Patis (Aconitum violaceum), Salampanja (Dactylorhiza hatagirea), Dhoop (Jurinea macrocephala), Kuru (Picrorhiza kurroa), Kinki (Gentiana kurroo), Bankakri (Podophyllum hexandrum), Singli-Mingli (Dioscorea deltoidea), Banaksha (Viola odorata), Muskbala (Valeriana wallichii), Kalazira (Carum bulbocastanum), Chirata (Swertia chirata), Buir or Senski (Artemisia maritima), Khanta or Somlata (Ephedra gerardiana), Khurasani ajwain (Hyoscyamus niger), Ban ajwain (Thymus serpyllum), Rewand chini (Rheum emodi), Mamiri (Thalictrum foliolosum), Kuth (Saussurea costus), Chaura (Angelica Glauca) Chukhri (Rheumemodi) etc.

Cost models have been devised for raising / propagating the medicinal plants in the catchment area and likely areas for propagation have also been identified.

7.6. SOIL CONSERVATION

It is proposed to adopt various biological / engineering measures for preventing soil erosion in Nallahs, on river, land slides/ slips of road etc. These are detailed as under:-

- 1) Stabilization of active land slide.
- 2) Treatment of nallas
- 3) Road Side erosion control

7.6.1. Stabilization of active land slide

The identified areas given in the CAT plan shall be stabilized by control measures which will depend upon the size, extent and location of the slips. However, in general the following measures shall be applied depending upon situation on the sites / field:-

- a) Construction of masonry check walls and undertaking of vegetative measures.
- b) Planting trees on level portions above check walls to provide stability.
- c) Planting grasses, shrubs, quick growing species and carrying out soil conservation measures to treat the sliding / eroding slip areas.

7.6.2. Treatment of Nallas

The identified areas given in the CAT plan shall be stabilized by control measures which will depend upon the size, extent and location of nallah/areas. The following measures shall be applied depending upon situation in the field:-

- a) Construction of check dams with crate wire to check the flow speed.
- b) The eroded and effected stream/ nallah bank will be channalised and protected by constructing:-
 - i) Crate wire spurs.
 - ii) Live hedge vegetative spurs.
Live hedge vegetative spurs shall be put up where the flow of water is slow and not torrential. Local species which are known as good soil binders like Salix spps. (Willow), Alnus nitida, Kudzu Vine and Ailanthus etc will be used.
- c) Silt Detention dams / Check dams:-
The sites which are highly vulnerable to soil erosion shall be taken on high priority and silt detention dams / check dams constructed on such sites in order to reduce the silt load to the river. These structures will break the velocity of water and arrest the silt discharge. Beside this Construction of masonry spurs, where ever required will also be constructed. Sowing/planting grasses, shrubs and quick growing species to treat the nallas bank areas will also be carried out.
Above Bio-Engineering works shall be adopted in vulnerable area to prevent further erosion of nallas bank.

7.6.3. Road Side erosion control

The road in the tract are generally along the bank of the river and pose a threat of siltation as the sides of roads are vulnerable to flooding because of loose strata. It is proposed to construct retaining walls, breast walls on road side to prevent slides and intercept loose soil. Exposed soil on road side shall be treated by, grasses, shrubs and fast growing species etc.

Chapter VIII ORGANISATION

8.1. TIME PHASING

The implementation of CAT Plan will be done in society mode. The Govt. of HIMACHAL PRADESH has notified UPPER SATLUJ VALLY WATERSHED DEVELOPMENT SOCIETY by HP. Govt. notification No. FFEB (F) 2-73/97 dated 23-10-2002 and has been registered by the Registrar, Co-Operation societies, Shimla, HP. The accelerated and time bound implementation of CAT plan will be carried out within ten years.

The afforestation works will preferably be completed during 1st 3-4 years and thereafter maintenance will be done up to seven years, except under assisted natural regeneration of forest the maintenance will be up to five years and under NTFP component this will be for three years. Pasture development works and soil and water conservation works will be completed within 1st five years and will be further maintained till the completion of the project period. All building works/necessary Forest/Rural infrastructure Development works will also be completed up to five years. Establishment / creation / maintenance of nurseries at suitable places will be completed in the zero year. A detailed plan for execution of various schemes will also be prepared during this period.

8.2. ORGANISATIONAL STRUCTURE AND IMPLEMENTATION ARRANGEMENT

The execution of CAT plan is proposed to be carried out through HP Forest Department through Conservator of Forest, Rampur circle cum Project Director. At the field level the actual implementation will be done by the DFO, Rampur and DFO, Anil at Luhri having territorial jurisdiction over the area covered under this plan. The DFO, Rampur will be assisted by the regular staff posted under them and by the DFO, CAT plan, Nichar. This division will be under the control of project Officer of DFO rank and under overall control of Conservator of forest, Rampur circle. The area of the Cat plan will be divided into small watersheds. The communities living in the watershed will be associated in preparing micro plans within the frame work of this CAT PLAN. The annual plan of operation will be prepared by the DFO concerned who shall then submit these to the DFO CAT plan Division Nichar. He will then scrutinize and send the consolidated APO, to CF-cum- Project Director, Rampur. The broad frame work of APO, for each year shall be approved by the PCCF, HP on the recommendation of CF-cum-Project Director. The approved APO will be implemented by respective DFOs. The CF-cum-PD shall be empowered to modify the interventions/activities under this plan, if required during its implementations within the overall objective and frame work of the plan. Any major modification to this Cat plan shall be approved by PCCF H.P./Governing body / Financial committee of the society. This Cat plan is designed to address the issues related to environmental degradation. Therefore, it is necessary to involve the local communities in micro planning. A close liaison shall also be maintained with other Govt. department like Agriculture, Horticulture, PWD, & Animal husbandry etc.

8.3. STAFF

The existing staff of the concerned divisions will be involved for implementation of CAT plan in addition to their own duties. If required the field staff and other ministerial staff will be engaged on contract basis.

8.4. HEADQUARTER OF THE PROJECT

Since the CAT Plan is to be implemented through DFO. (T) Viz DFO. Rampur and Luhri hence the headquarter of all the allied staff will be as per their territorial jurisdiction.

Chapter IX COST ESTIMATE

9.1. TOTAL COST OF CAT PLAN

Cost of the various components under the CAT PLAN has been worked out on the basis of present cost and schedule of work and labour rates existing in the Forest Department of Rampur Circle. Details of expenditure for various components have been shown in the respective chapters. Total cost of the plan for 10 years including 0 year which works out to be Rs. 23,37,94,000/-.

Year	Rampur	Ani	Total
0Year	1113200	1265000	2378200
1st year	19426000	24836900	44262900
2nd year	25515930	35885630	61401560
3rd year	28537795	34386440	62924235
4th year	12314005	15078250	27392255
5th year	4943400	11468050	16411450
6th year	2928750	3775475	6704225
7th year	2278925	3020875	5299800
8th year	1596650	2088625	3685275
9th year	946825	1342000	2288825
10th year	427350	617925	1045275
	100028830	133765170	233794000

9.2. DIVISION-WISE & RANGE-WISE PLANTATION TARGETS

The division-wise and range-wise plantation targets are given in the table given below:

Division-wise & Range-wise Plantation Targets	Rampur Division					Ani Division			Grand Total
	Sarahan Range	Rampur Range	Bahli Range	Nankhari Range	Total	Arsu Range	Nither Range	Total	
1. Forest Conservation & Improvement									
a) Afforestation of Degraded Forest Lands	45	105	70	80	300	240	240	480	780
b) Replenishment Afforestation	25	80	100	55	260	110	90	200	460
c) Assisted Natural Regeneration	50	25	20	100	195	145	60	205	400
d) Development of Medicinal Plant	30	20	30	0	80	65	25	90	170
2. Pasture Improvement									
a) Alpine Pastures	15	10	0	0	25	80	20	100	125
b) Low Lying Pastures	15	15	40	10	80	65	75	140	240
3. Subsidiary Silvicultural Operation	45	85	0	70	200	121	50	170	380
Range wise / Division wise Total	225	340	260	315	1140	846	569	1415	2555

9.3. COMPONENTWISE TOTAL OUTLAY (PHY. & FIN.) AND PERCENTAGE AT A GLANCE.

The componentwise total outlay of Physical and Financial (division-wise) including percentage is given in the following table :

Componentwise Total Outlay (Phy. & Fin.) and Percentage at a Glance						
Component	Rampur		Ani		%age	
	Fin. (in Rs.)	Phy. (ha. / Nos.)	Fin. (in Rs.)	Phy. (ha. / Nos.)	Rampur	Ani
1. Establishment of CAT Plan Nursery Preparatory nursery works for raising of seedlings for 1st year plantation work schedule	1012000	303000 No	1150000	317500 No	0.43	0.49
2. Forest Conservation / Extension & Improvement	35562800	835 hac.	43088400	975 hac.	15.21	18.43
3. Pasture Improvement	3276000	105 hac.	6992000	260 hac.	1.40	2.99
4. Subsidiary Silvicultural Operation	500000	200 hac.	450000	180 hac.	0.21	0.19
5. Soil and Moisture Conservation Works	23720000	153 Nos.	40628200	124 Nos.	10.15	17.38
6. Avenue Planting & Land Escaping	120000	2 Nos.	237600	10 Nos.	0.05	0.10
7. Forest Infrastructure Development	5530000	61 Nos.	4505000	69 Nos.	2.37	1.93
8. Rural Infrastructural Development	5985000	158 Nos.	5345000	102 Nos.	2.56	2.29
9. Treatment of Private Land	500000	2 Nos.	1000000	19 Nos.	0.21	0.43
10. Fuel Saving Device	690000	11 Nos.	1115000	13 Nos.	0.30	0.48
11. Rain water harvesting	900000	10 Nos.	625000	10 Nos.	0.38	0.27
12. Wild Life Improvement	2305000	---	2405000	---	0.99	1.03
13. Forest Protection	1234500	25 Nos.	1313500	49 Nos.	0.53	0.56
14. Training and Studies	200000	---	300000	---	0.09	0.13
15. Awareness & publicity	1000000	---	1000000	---	0.43	0.43
16. Operational Supports	4150000	2 Nos.	6200000	3 Nos.	1.78	2.65
17. Agri. Support	2500000	---	3500000	---	1.07	1.50
18. Horti. Support	750000	---	750000	---	0.32	0.32
19. Animal Husb. Support	1000000	---	1000000	---	0.43	0.43
Total	90935300	---	121604700	---	38.90	52.01
20. Contingency	9093530	---	12160470	---	3.89	5.20
G.Total	100028830	---	133765170	---	42.79	57.21

9.4. ANNUAL PHASING

Annual phasing of works to be carried out in Rampur HEP and year-wise phasing component wise work schedule is given in the plan and attached.

0 YEAR COMPONENT WISE WORK SCHEDULE							
Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
1. Establishment of CAT Plan Nursery							
Preparatory nursery works for raising of seedlings for 1st year plantation work schedule							
a) Afforestation of Degraded Forest Lands	Rampur	Sarahan	Preparatory nursery works for raising of seedlings for 1st year plantation work schedule	No.	22000	4	88000
		Rampur		No.	38500	4	154000
		Bahli		No.	27500	4	110000
		Nankhari		No.	33000	4	132000
		Total			121000		484000
	Ani	Arsu		No.	99000	4	396000
		Nither		No.	85000	4	340000
		Total			187000		748000
		Grand Total			308000		1232000
b) Replenishment Afforestation	Rampur	Sarahan		--do--	No.	17500	4
		Rampur		No.	21000	4	84000
		Bahli		No.	21000	4	84000
		Nankhari		No.	10500	4	42000
		Total			70000		280000
	Ani	Arsu		No.	28000	4	112000
		Nither		No.	21000	4	84000
		Total			49000		196000
		Total			119000		476000
c) Assisted Natural Regeneration	Rampur	Sarahan	--do--	No.	6000	4	24000
		Rampur		No.	0	4	0
		Bahli		No.	0	4	0
		Nankhari		No.	6000	4	24000
		Total			12000		48000
	Ani	Arsu		No.	9000	4	36000
		Nither		No.	0	4	0
		Total			9000		36000
		Total			21000		84000
d) Development of Medicinal Plant	Rampur	Sarahan	Preparatory nursery works for raising of seedlings for 2nd year plantation work schedule	No.	50000	2	100000
		Rampur		No.	30000	2	60000
		Bahli		No.	20000	2	40000
		Nankhari		No.	0	2	0
		Total			100000		200000
	Ani	Arsu		No.	60000	2	120000
		Nither		No.	0	2	0
		Total			60000		120000
		Total			160000		320000
e) Alpine Pastures	Rampur	Sarahan			Ha.	0	0
		Rampur		Ha.	0	0	0
		Bahli		Ha.	0	0	0
		Nankhari		Ha.	0	0	0
		Total			0		0
	Ani	Arsu		Ha.	0	0	0
		Nither		Ha.	0	0	0
		Total			0		0
		Total			0		0
f) Low Lying Pastures	Rampur	Sarahan	Preparatory nursery works for raising of seedlings for 2nd year plantation work schedule	Ha.	0	4	0
		Rampur		Ha.	0	4	0
		Bahli		Ha.	0	4	0
		Nankhari		Ha.	0	4	0
		Total			0		0
	Ani	Arsu		Ha.	7500	4	30000
		Nither		Ha.	5000	4	20000
		Total			12500		50000
		Total			12500		50000
2. Forest Conservation & Improvement							
a) Afforestation of Degraded Forest Lands	Rampur			No.	0	33500	0
		Total			0	33500	0
	Ani			No.	0	33500	0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Total					0
		Grand Total					0
b) Replenishment Afforestation	Rampur			No	0	28000	0
		Total					0
	Ani			No	0	28000	0
		Total					0
		Grand Total					0
c) Assisted Natural Regeneration	Rampur			No	0	22500	0
		Total					0
	Ani			No	0	22500	0
		Total					0
		Grand Total					0
d) Development of Medicinal Plant	Rampur			No	0	29300	0
		Total					0
	Ani			No	0	29300	0
		Total					0
		Grand Total					0
3. Pasture Improvement							
a) Alpine Pastures	Rampur			Ha	0	8800	0
		Total					0
	Ani			Ha	0	8800	0
		Total					0
		Grand Total					0
b) Low Lying Pastures	Rampur			Ha	0	27250	0
		Total					0
	Ani			Ha	0	27250	0
		Total					0
		Grand Total					0
4. Subsidiary Silvicultural Operation	Rampur			Ha	0	2500	0
		Total					0
	Ani			Ha	0	2500	0
		Total					0
		Grand Total					0
5. Soil And Moisture Conservation Works							
a) Stabilization of Active Land Slide	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
b) Treatment of Nallas	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
c) Road Side Erosion Control	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
6. Avenue Planting & Land Escaping	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
7. Forest Infrastructure Development							
a) Repair of Forest Paths	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
b) Repair / construction of operational buildings	Rampur				0		0
		Total					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Ani				0		0
		Total					0
		Grand Total					0
c) Farm Ponds	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
d) Soil and Water Harvesting Structure	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
Total Forest Infrastructure Development							
8. Rural Infrastructural Development							
a) Village Ponds & Tanks	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
b) Repair of Springs, Bawari & other Water	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
c) Strengthening of Village Road & Path	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
d) Construction of Foot Bridges	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
Total Construction of Foot Bridges							
9. Treatment of Private Land	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
10. Fuel Saving Devices							
a) Construction of crematoria	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
b) Distribution of Pressure cookers/ Biogas	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
Total Fuel Saving Devices							
11. Construction of Rain Water Harvesting Structure							
	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
12. Wildlife Improvement							
A) Intensive Mangement of Wildlife							
i) Protection of Forest and Wildlife							

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
a) Repair of Existing Boundary Pillars	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
b) Improvement of Wireless Communication System	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
c) Equipment i.e. Fire Fighting	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
d) Debris Disposal	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
Total Protection of Forest and Wildlife							
0							
II) Veterinary Facilities / Vaccination of Domestic Cattle	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
III) Reward/Incentives to the informers	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
IV) Anti Poaching Activities	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
V) Habitat Improvement	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
VI) Nature Awareness Camp	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
VII) Wildlife Census Operations in Outside protected areas	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
VIII) Sign and Slogan Boards	Rampur				0		0
		Total					0
	Ani				0		0
		Total					0
		Grand Total					0
Total Intensive Mangement of Wildlife							
0							
B) Eco Development Activities							
I) Village Support Activities (including Sanitation etc.)	Rampur				0		0
		Total					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Ari				0		0
		Total					0
		Grand Total					0
<i>ii) Development of NTFP</i>	Rampur				0		0
		Total					0
	Ari				0		0
		Total					0
		Grand Total					0
<i>iii) Eco Tourism Activities</i>	Rampur				0		0
		Total					0
	Ari				0		0
		Total					0
		Grand Total					0
<i>iv) Income Generation Activities (Vermi Composting)</i>	Rampur				0		0
		Total					0
	Ari				0		0
		Total					0
		Grand Total					0
Total Eco Development Activities							0
Total Wildlife Improvement							0
13. Forest Protection							
a) Clearance of Fire Line	Rampur				0		0
		Total					0
	Ari				0		0
		Total					0
		Grand Total					0
b) Engagement of Fire Watchers & Fire Fighting Squads	Rampur				0		0
		Total					0
	Ari				0		0
		Total					0
		Grand Total					0
c) Purchase of Fire Fighting Equipments	Rampur				0		0
		Total					0
	Ari				0		0
		Total					0
		Grand Total					0
d) Construction of Watch Tower	Rampur				0		0
		Total					0
	Ari				0		0
		Total					0
		Grand Total					0
e) Construction of Gange Huts	Rampur				0		0
		Total					0
	Ari				0		0
		Total					0
		Grand Total					0
f) Improvement of Communication System	Rampur				0		0
		Total					0
	Ari				0		0
		Total					0
		Grand Total					0
Total Forest Protection							0
14. Training And Studies	Rampur						0
	Ari						0
		Total					0
15. Awareness & Publicity	Rampur						0
	Ari						0
		Total					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
16. Operational Supports							0
a) Essstl Charges	Rampur						0
	Ani						0
	Total						0
b) Office Expenditure	Rampur						0
	Ani						0
	Total						0
c) Travelling Expenditure	Rampur						0
	Ani						0
	Total						0
d) Office Equipment	Rampur						0
	Ani						0
	Total						0
e) Operational Mobility	Rampur						0
	Ani						0
	Total						0
f) Amenities to Staff and Labour	Rampur						0
	Ani						0
	Total						0
g) Motor Vehicle	Rampur						0
	Ani						0
	Total						0
17. Agricultural Supports	Rampur						0
	Ani						0
	Total						0
18. Horticultural Supports	Rampur						0
	Ani						0
	Total						0
19. Animal Husbandary Support	Rampur						0
	Ani						0
	Total						0
20. Contingency	Rampur						101200
	Ani						115000
	Total						216200
Grand Total							2378200

1st YEAR COMPONENT WISE WORK SCHEDULE								
Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount	
1. Establishment of CAT Plan Nursery	Rampur						0	
	Ani						0	
	Total							0
2. Forest Conservation & Improvement								
a) Afforestation of Degraded Forest Lands	Rampur	Sarahan		Ha	20	33500	670000	
		Rampur		Ha	35	33500	1172500	
		Bahli		Ha	25	33500	837500	
		Nankhani		Ha	30	33500	1005000	
		Total			110		3685000	
		Ani	Arsu		Ha	70	33500	2345000
			Nither		Ha	80	33500	2680000
		Total			150		5025000	
	Grand Total					260		8710000
	b) Replenishment Afforestation	Rampur	Sarahan		Ha	25	28000	700000
		Rampur		Ha	30	28000	840000	
		Bahli		Ha	30	28000	840000	
		Nankhani		Ha	15	28000	420000	
		Total			100		2800000	
		Ani	Arsu		Ha	30	28000	840000
			Nither		Ha	30	28000	840000
		Total			60		1680000	
Total					160		4480000	
c) Assisted Natural Regeneration		Rampur	Sarahan		Ha	20	22500	450000
		Rampur		Ha	0	22500	0	
		Bahli		Ha	0	22500	0	
		Nankhani		Ha	20	22500	450000	
		Total			40		900000	
		Ani	Arsu		Ha	30	22500	675000
			Nither		Ha	0	22500	0
		Total			30		675000	
	Total					70		1575000
	d) Development of Medicinal Plant	Rampur	Sarahan		Ha	0	29300	0
		Rampur		Ha	0	29300	0	
		Bahli		Ha	0	29300	0	
		Nankhani		Ha	0	29300	0	
		Total			0		0	
		Ani	Arsu		Ha	0	29300	0
			Nither		Ha	0	29300	0
		Total			0		0	
Total					0		0	
3. Pasture Improvement								
a) Alpine Pastures	Rampur	Sarahan		Ha	0	8800	0	
		Rampur		Ha	0	8800	0	
		Bahli		Ha	0	8800	0	
		Nankhani		Ha	0	8800	0	
		Total			0		0	
		Ani	Arsu		Ha	20	8800	176000
			Nither		Ha	0	8800	0
		Total			20		176000	
	Total					20		176000
	b) Low Lying Pastures	Rampur	Sarahan		Ha	0	27250	0
		Rampur		Ha	0	27250	0	
		Bahli		Ha	0	27250	0	
		Nankhani		Ha	0	27250	0	
		Total			0		0	
		Ani	Arsu		Ha	0	27250	0
			Nither		Ha	0	27250	0
		Total			0		0	
Total					0		0	
4. Subsidiary Silvicultural Operation								
	Rampur	Sarahan		Ha	0	2500	0	
		Rampur		Ha	0	2500	0	
		Bahli		Ha	0	2500	0	
		Nankhani		Ha	0	2500	0	

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Total			6		0
	Ani	Arzu		Ha	0	2500	0
		Nither		Ha	0	2500	0
		Total			0		0
		Total			0		0
5. Soil And Moisture Conservation Works							
a) Stabilization of Active Land Slide	Rampur	Sarahan	C-187 F. Bari				400000
		Rampur	Kulu	3	-do-		500000
			Gandra	5			200000
			Bainal	10	-do-		175000
			Barkal	5	-do-		225000
			Darshai	3	-do-		175000
		Bahli	Dalag	5			400000
		Nankhari	Khadech				100000
Total Rampur Division							2175000
	Ani	Arzu	Tharedhar slip				170000
			Kund Kafi Nalla				204000
			Kushwa Nalla				204000
			Ludru Nallah				238000
			Upper Chatti				238000
			Shoga Nallah				204000
			Brow				68000
	Arzu		Jakodi				204000
			Pajenda Nalla				170000
		Nither	Chintwa				476000
			Nintha				204000
			Ishwa				204000
			Moin				102000
Total Ani Division							2686000
Total Active Land slide							4851000
b) Treatment of Nallas	Rampur	Sarahan	Koot Nalla				350000
			Thada				100000
		Rampur	Jakho Nalla				175000
			Khakrola Nalla				500000
			Jaguni Nalla				500000
			Palanu Nalla				100000
			Kamchoda Nalla				115000
			Munish Nalla				75000
			Khatal Nalla				135000
			Darshai Nalla				50000
		Bahli	Nehra				100000
			Chauka				80000
			Jarashi				100000
			Dhansu				125000
			Dhansa				100000
			Khamadi				100000
			Taklech				100000
			Khali				100000
			Rajpura				150000
		Nankhari	Panoun Nalla				150000
			Tharb Nalla				80000
			Kashela Nalla				50000
			Khali Nalla				80000
Total Rampur Division							3415000
	Ani	Arzu	Sarga Nalla				300000
			Chast (Chottu)				500000
			Shishwa Nalla				600000
			Buni Nalla				500000
			Kamcha Nalla				600000
			Juagi Nalla				600000
			Thachwa Nalla				1350000
		Nither	Dokhan (Moin)				250000
			Shila Nalla				600000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
			Koil Nalla				800000
			Ishwa Nalla				750000
			Sherahaha				400000
Total Ani Division							7050000
G. Total Treatment of Nalla							10465000
c) Road Side Erosion Control	Rampur	Sarahan	Katolu bridge to Phancha			L / S	65000
		Rampur	Kalyanpur N.H.22	mtrs.	200	L / S	55000
		Bahli	Bahli to Sungrt	mtrs.	500	L / S	85000
		Nankhan	Pandadhar-Nankh	mtrs.	0.200	L / S	30000
		Total			700.200		235000
	Ani	Arasu	Jhakri Jhulla to Kazu Kha		4		62000
		Nither	Avera to Ghatu Road		1		70000
		Total					132000
		G. Total					367000
6. Avenue Planting & Land Escaping	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total Rampur Division					0
	Ani	Arasu					0
		Nither					0
		Total					0
		Total Avenue Planting & Land Escaping					0
7. Forest Infrastructure Development							
a) Repair of Forest Paths	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
	Ani	Arasu					0
		Nither					0
		Total					0
b) Repair / construction of operational buildings	Rampur	Sarahan	Repair of IHut Koot				40000
			Repair of F.G/Hut Jhagon				25000
		Rampur	Repair of B.O. Qtr. Deothi				40000
			Repair of B.O. Qtr. Nogh				65000
		Bahli	FG Hut Bahli				30000
			FG Hut Surad				40000
		Nankhan	FG Hut Sholi				60000
			FG Hut Chakti				80000
		Total					360000
	Ani	Arasu	Repair of IHut Sarga				150000
			FG Hut/ BO Qtr. Kharga				80000
			G/Hut at Chunagha				40000
			FG Hut Thanvi				25000
		Nither	Repair of FG Hut Nither				30000
			Repair of Chowkidar/Peon Qtr.				40000
			FG Hut Koil				25000
			FG Hut Ghatu				25000
		Total					415000
		Total Repair / construction of operational buildings					775000
c) Farm Ponds	Rampur	Sarahan		No.	3	L / S	75000
		Rampur		No.	2		50000
		Bahli		No.			0
		Nankhan		No.	2		50000
		Total			7		175000
	Ani	Arasu		No.	2		50000
		Nither		No.	3		75000
		Total			5		125000
		Total Farm Ponds					300000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
d) Soil and Water Harvesting Structure	Rampur	Sarahan	Batuna	No.	1		150000
		Rampur	Neri		1		150000
		Bahli					0
		Nankhari	Sharog		1		150000
		Total			3		450000
	Ani	Arso	Chilla Nat II		1		150000
			Kote		1		150000
		Nither	Moin Nalla		1		150000
			Koil		1		150000
		Total			4		600000
		Total Soil and Water Harvesting Structure					1050000
8. Rural Infrastructural Development							
a) Village Ponds & Tanks	Rampur	Sarahan	Kao	No.	1		35000
		Rampur	Makrol	No.	1		35000
			Faindhar	No.	1		35000
			Sari (Kashapal)	No.	1		35000
		Bahli	Nehra	No.	1		35000
		Nankhari	Thali	No.	1		35000
		Total			6		210000
	Ani	Arso	Kinda	No.	1		35000
			Shataidhar	No.	1		35000
			Kathanda	No.	1		35000
			Jawa	No.	1		35000
		Nither	Chiuni	No.	1		35000
			Dogil	No.	1		35000
			Katmore	No.	1		35000
		Total			7		245000
		Total Village Ponds & Tanks					455000
b) Repair of Springs, Bawari & other Water	Rampur	Sarahan	Kao	No.	1		20000
		Rampur	Naghal		1		20000
			Aanan Makrol		1		20000
			Kamsari		1		20000
			Kandi		1		20000
		Bahli	Nalag		1		20000
			Nehra, Bashali		1		20000
		Nankhari	Sholi		1		20000
		Total			8		160000
	Ani	Arso	Sarga (Barjan)				20000
			Nimand (Newala)	Km		L/S	65000
		Nither	Aflu Kuhal	Km		L/S	120000
			Margi				20000
		Total					225000
		Total Repair of Springs, Bawari & Other Water Sources					385000
c) Strengthening of Village Road & Path	Rampur	Sarahan	P School Bathara	Km		L/s	30000
			Thada to Potwa (Chanach)				20000
			Thada to Pithvi				15000
			Kool to Khuncha				25000
			Smej road side to PHC Samej				25000
		Rampur	Kandi to Satuj River				50000
			Pity to Ghawandi Dhar				50000
			Khuna to Saneri				40000
			Kumtu to Yoginath				25000
			Rajpura to Masama				40000
			Talai to Khanewli				40000
			Anurakshi to Kareri				40000
			App. Path from NH-22(H/B Colony) to Rahu				200000
		Bahli	Chalani to Batheda				40000
			Seri Village				35000
		Nankhari	Radaina to Dharacia				40000
			Nawan Vill-part-I				100000
		Total					815000
	Ani	Arso	Smej to Sarga				90000
			Kuni Khad to Tandi				90000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount	
			Bail to Pipaldhar				80000	
			Arso to Reushal				50000	
			Bagna to Shivi				70000	
		Nither	Palapal to Sanah				200000	
			Sarda to Urtu				25000	
		Total					585000	
		Total Strengthening of Village Road & Path						1400000
d) Construction of Foot Bridges	Rampur	Sarahan	Smej			L/S	70000	
		Rampur	Anu Khad				90000	
		Bahli	Over Nogi Khad Near Batheda				90000	
		Nankhan	Chakti (Khurnu)				90000	
		Total					340000	
	Ani	Arso	Fonoligad				80000	
			Repair of Nadi Bridge				40000	
			Khara to Khobar				90000	
			Sharni Bridge				50000	
		Nither	ABU Footbridge				90000	
			Nagala				80000	
		Total	Total				430000	
		Total Construction of Foot Bridges						770000
5. Treatment of Private Land	Rampur	Sarahan					0	
		Rampur	Kumsu Devta Sahib				200000	
		Bahli					0	
		Nankhan					0	
		Total					200000	
	Ani	Arso	Shanu				35000	
			Pranta				35000	
			Dharopa				100000	
		Nither	Moin				200000	
			Katmore (Lang I & II)				30000	
		Total					400000	
		Total Treatment of Private Land						600000
10. Fuel Saving Devices								
a) Construction of crematoria	Rampur	Sarahan	Bathara	No.	1		75000	
		Rampur	Nogli		1		75000	
		Bahli	Dev Nagar		1		75000	
		Nankhan	Chakti (Dadhara)		1		75000	
		Total			4		300000	
	Ani	Arso	Nimand (Dropa)		1		75000	
			Brow		1		75000	
		Nither	Jhali		1		75000	
		Moin	Moin Jhulla		1		75000	
		Total			4		300000	
		Total Construction of Crematoria						600000
b) Distribution of Pressure cookers/ Biogas	Rampur	Sarahan	Bhagawat Beat				10000	
		Rampur	Rampur Block				10000	
		Bahli	Bahli Block				10000	
		Nankhan	Sholi Block				10000	
		Total					40000	
	Ani	Arso	Sarga Beat				10000	
			Tunan Beat				10000	
			Brow Beat				10000	
			Arso Beat				10000	
		Nither	Moin Beat				10000	
			Katmore Beat				10000	
		Total					60000	
		Total Distribution of P.Cookers/ Chullahas						100000
11. Construction of Rain Water Harvestin	Rampur	Sarahan					0	
		Rampur					0	
		Bahli	Sobali	No.	1		100000	
			Kaleda		1		100000	
		Nankhan	Shol		1		100000	
		Total			3		300000	
	Ani	Arso	Nimand		1		125000	

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount	
		Nither	Moan		1		125000	
		Total			2		250000	
		Total Const. of Rain Water Harvesting						550000
12. Wild Life Improvement								
A) Intensive Mangement of Wildlife								
<i>ij) Protection of Forest and Wildlife</i>								
a) Repair of Existing Boundary Pillars	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	
		Total					15000	
	Ani	Arsu					0	
		Nither					0	
		Total					15000	
		Total Repair of Existing B.P.						30000
b) Improvement of Wireless Communication System	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	
		Total					0	
	Ani	Arsu					0	
		Nither					0	
		Total					0	
		Total Imp. Of WCS.						0
c) Equipment i.e. Fire Fighting	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	
		Total					0	
	Ani	Arsu					0	
		Nither					0	
		Total					0	
		Total Equipment i.e. Fire Fighting						0
d) Debris Disposal	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	
		Total					0	
	Ani	Arsu					0	
		Nither					0	
		Total					0	
		Total Debris Disposal						0
<i>ij) Veterinary Facilities / Vaccination of Domestic Cattle</i>	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	
		Total					20000	
	Ani	Arsu					0	
		Nither					0	
		Total					20000	
		Total Veterinary Facilities						40000
<i>iii) Reward/incentives to the informers</i>	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	
		Total					20000	
	Ani	Arsu					0	
		Nither					0	
		Total					20000	
		Total Reward/incentives to the informars						40000
<i>IV) Anti Poaching Activities</i>	Rampur	Sarahan					0	
		Rampur					0	

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
			Bahi				0
			Nankhan				0
			Total				20000
	Ani		Arsu				0
			Nither				0
			Total				20000
			Total Anti Poaching Activities				40000
<i>V) Habitat Improvement</i>	Rampur		Sarahan				0
			Rampur				0
			Bahi				0
			Nankhan				0
			Total				0
	Ani		Arsu				0
			Nither				0
			Total				0
			Total Habitat Improvement				0
<i>VI) Nature Awareness Camp</i>	Rampur		Sarahan				0
			Rampur				0
			Bahi				0
			Nankhan				0
			Total				20000
	Ani		Arsu				0
			Nither				0
			Total				20000
			Total NAC				40000
<i>VII) Wildlife Census Operations in Outside protected areas</i>	Rampur		Sarahan				0
			Rampur				0
			Bahi				0
			Nankhan				0
			Total				0
	Ani		Arsu				0
			Nither				0
			Total				0
			Total WL Census Operations				0
<i>VIII) Sign and Slogan Boards</i>	Rampur		Sarahan				0
			Rampur				0
			Bahi				0
			Nankhan				0
			Total				0
	Ani		Arsu				0
			Nither				0
			Total				0
			Total Sign & Slogan Boards				0
B) Eco Development Activities							
<i>i) Village Support Activities (Including Sanitation etc.)</i>	Rampur		Sarahan				0
			Rampur				0
			Bahi				0
			Nankhan				0
			Total				0
	Ani		Arsu				0
			Nither				0
			Total				0
			Total VS Activities				0
<i>ii) Development of NTFP</i>	Rampur		Sarahan				0
			Rampur				0
			Bahi				0
			Nankhan				0
			Total				75000
	Ani		Arsu				0
			Nither				0
			Total				100000
			Total Development of NTFP				175000

Component	Division	Range *	Name of Area	Unit	Quantity	Rate	Amount
(II) Eco Tourism Activities	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total ET Activities					0
(IV) Income Generation Activities (Vams Composting)	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total IG Activities					0
13. Forest Protection							0
a) Clearance of Fire Line	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					10000
	Ani	Arsu					0
		Nither					0
		Total					10000
		Total Clearance of Fire Line					20000
b) Engagement of Fire Watchers & Fire Fighting Squads	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total Eng. Fire Watchers					0
c) Purchase of Fire Fighting Equipments	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					75000
	Ani	Arsu					0
		Nither					0
		Total					75000
		Total Purchase of F.F. Equipments					150000
d) Construction of Watch Tower	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total Const. WT					0
e) Construction of Gang Huts	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total Const. GH					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount	
f) Improvement of Communication System	Rampur	Sarhani					0	
		Rampur					0	
		Behi					0	
		Nankhan					0	
		Total					0	
	Ani	Arsu						0
		Nher						0
	Total					0		
	Total ICS						0	
14. Training And Studies	Rampur						50000	
	Ani						100000	
	Total						150000	
15. Awareness & Publicity	Rampur						0	
	Ani						0	
	Total						0	
16. Operational Supports								
	a) Esalt Charges	Rampur					0	
		Ani					0	
	Total						0	
b) Office Expenditure	Rampur						25000	
	Ani						50000	
	Total						75000	
c) Traveling Expenditure	Rampur						10000	
	Ani						30000	
	Total						40000	
d) Office Equipment			Computer & All in One Laser Printer in kind from the user agency		2		100000	
	Rampur							
	Ani		Computer & All in One Laser Printer in kind from the user agency		2		100000	
	Total						200000	
e) Operational Mobility	Rampur						0	
	Ani						300000	
	Total						300000	
f) Amenities to Staff and Labour	Rampur						10000	
	Ani						10000	
	Total						20000	
g) Motor Vehicle	Rampur		POL				50000	
			Operational vehicle for field works to be provided in kind				500000	
	Ani		POL				50000	
			1 Gypsy to be provided in kind to DFO Ani				500000	
	Total						1100000	
17. Agricultural Supports	Rampur						0	
	Ani						0	
	Total						0	
18. Horticultural Supports	Rampur						0	
	Ani						0	
	Total						0	
19. Animal Husbandary Support	Rampur						100000	
	Ani						100000	
	Total						200000	
20. Contingency	Rampur						1766000	
	Ani						2257900	
	Total						4023900	
	Grand Total						44262900	

2nd YEAR COMPONENT WISE WORK SCHEDULE							
Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
1. Establishment of CAT Plan Nursery	Rampur						0
	Ani						0
		Total					0
2. Forest Conservation & Improvement							
a) Afforestation of Degraded Forest Lands	Rampur	Sarahan		Ha	25	33500	837500
		Rampur		Ha	35	33500	1172500
		Bahli		Ha	25	33500	837500
		Nankhan		Ha	25	33500	837500
		Total			110		3685000
	Ani	Arasu		Ha	95	33500	3182500
		Nither		Ha	65	33500	2177500
		Total			160		5360000
		Grand Total			270		9045000
1st Year Maintenance	Rampur	Sarahan		Ha	20	3980	79600
		Rampur		Ha	35	3980	139300
		Bahli		Ha	25	3980	99500
		Nankhan		Ha	30	3980	119400
		Total			110		437800
	Ani	Arasu		Ha	70	3980	278600
		Nither		Ha	80	3980	318400
		Total			150		597000
		Grand Total			260		1034800
		Total Degraded Forest Land			550		10749800
b) Replenishment Afforestation	Rampur	Sarahan		Ha	0	28000	0
		Rampur		Ha	25	28000	700000
		Bahli		Ha	35	28000	980000
		Nankhan		Ha	20	28000	560000
		Total			80		2240000
	Ani	Arasu		Ha	45	28000	1260000
		Nither		Ha	35	28000	980000
		Total			80		2240000
		Total			160		4480000
1st Year Maintenance	Rampur	Sarahan		Ha	25	2780	69500
		Rampur		Ha	30	2780	83400
		Bahli		Ha	30	2780	83400
		Nankhan		Ha	15	2780	41700
		Total			100		278000
	Ani	Arasu		Ha	30	2780	83400
		Nither		Ha	30	2780	83400
		Total			60		166800
		Total			160		444800
Total Replenishment Afforestation					320		4924800
c) Assisted Natural Regeneration	Rampur	Sarahan		Ha	30	22500	675000
		Rampur		Ha	25	22500	562500
		Bahli		Ha	0	22500	0
		Nankhan		Ha	30	22500	675000
		Total			85		1912500
	Ani	Arasu		Ha	50	22500	1125000
		Nither		Ha	25	22500	562500
		Total			75		1687500
		Total			160		3600000
1st Year Maintenance	Rampur	Sarahan		Ha	20	1900	38000
		Rampur		Ha	0	1900	0
		Bahli		Ha	0	1900	0
		Nankhan		Ha	20	1900	38000
		Total			40		76000
	Ani	Arasu		Ha	30	1900	57000
		Nither		Ha	0	1900	0
		Total			30		57000
		Total			70		133000
Total Assisted Natural Regeneration					230		3733000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
d) Development of Medicinal Plant (New)	Rampur	Sarahan		Ha	15	29300	439500
		Rampur		Ha	10	29300	293000
		Bahli		Ha	5	29300	146500
		Nankhan		Ha	0	29300	0
		Total			30		879000
	Ani	Arsu		Ha	25	29300	732500
		Niher		Ha	0	29300	0
		Total			25		732500
Total					55		1611500
1st Year Maintenance	Rampur	Sarahan	Nil	Ha	0	4700	0
		Rampur	Nil	Ha	0	4700	0
		Bahli	Nil	Ha	0	4700	0
		Nankhan	Nil	Ha	0	4700	0
		Total			0		0
	Ani	Arsu	Nil	Ha	0	4700	0
		Niher	Nil	Ha	0	4700	0
		Total			0		0
Total Development of Medicinal Plant					55		1611500
3. Pasture Improvement							
a) Alpine Pastures (New)	Rampur	Sarahan		Ha	10	8800	88000
		Rampur		Ha	5	8800	44000
		Bahli		Ha	0	8800	0
		Nankhan		Ha	0	8800	0
		Total			15		132000
	Ani	Arsu		Ha	35	8800	308000
		Niher		Ha	20	8800	176000
		Total			55		484000
Total					70		616000
b) Low Lying Pastures (New)	Rampur	Sarahan		Ha	0	27250	0
		Rampur		Ha	0	27250	0
		Bahli		Ha	0	27250	0
		Nankhan		Ha	0	27250	0
		Total			0		0
	Ani	Arsu		Ha	20	27250	545000
		Niher		Ha	10	27250	272500
		Total			30		817500
Total of Pasture Improvement					100		1433500
4. Subsidiary Silvicultural Operation	Rampur	Sarahan		Ha	0	2500	0
		Rampur		Ha	0	2500	0
		Bahli		Ha	0	2500	0
		Nankhan		Ha	0	2500	0
		Total			0		0
	Ani	Arsu		Ha	0	2500	0
		Niher		Ha	0	2500	0
		Total			0		0
Total					0		0
5. Soil And Moisture Conservation Works							
a) Stabilization of Active Land Slide	Rampur	Sarahan	C-167 F Bari				50000
		Rampur	Laksa				650000
			Kulu				150000
			Kawran				225000
			Roohan				175000
			Deorinal				175000
		Bahli	Chashani				150000
			Marala				150000
			Lada				150000
		Nankhan	Bagini				200000
			C-119				50000
Total Rampur Division							150000
	Ani	Arsu	Kund				2125000
			Kajo Khad				170000
							240000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
			Kshol Khad				600000
			Brow Nallah				170000
			Bai Nallah				204000
			Avan				400000
			Tharvi				102000
			Bardidhar				102000
			Pankwa				102000
			Chanai gad				238000
		Nither	Sheli				250000
			Shila				238000
			Kunish nalla				204000
			Koi Nalla				238000
			Dhadanal				170000
			Nither				102000
			Mangi				102000
			Total Ani Division				3632000
			Total Active land slide				5757000
b) Treatment of Nallas	Rampur	Sarahan	Grat Nalla				175000
			Brandu Nalla				100000
			Phancha Nalla				100000
			Sarapara Nalla				100000
			Kinoo				115000
			Manglad Near Badrai				375000
		Rampur	Ropru Nalla				160000
			Khakrola Nalla				250000
			Bahina Nalla				750000
			Jaguni Nalla				260000
			Sukgad Nalla				275000
			Khatu Nalla				195000
			Bhati Nalla				115000
			Dandoi Nalla				75000
		Bahi	NagaSaur to Shafy				100000
			Karen				80000
			Buenthal				100000
			Pai				100000
			Mirg				125000
			Tipper				100000
			Kandren				100000
			C-126 Kandren				100000
			Bada Nal (Sen)				150000
			Siyana				125000
			Malog				125000
			Khanoto				100000
		Nankhan	Pandadhar				150000
			Joga Nalla				130000
		Sholi	Radana Nalla				80000
			Kothi Nalla				4755000
		Total Rampur Range					
	Ani	Ansu	Samej Nalla				300000
			Muchka Nalla				600000
			Jagatkhana Nalla				1350000
			Kund Nalla				600000
			Shaur Nalla				500000
			Shaluri Nalla				675000
			Koshoni Nalla				450000
			Gredo Nalla				760000
			Bagani/Sarada				500000
		Nither	Moin Nalla				325000
			Aflu Nalla				400000
			Sori Nalla				600000
			Chorani				600000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
			Ishwa Nalla				250000
			Kutal Nalla				550000
			Naigad				250000
			Bafkiol Nalla				275000
			Gai age				200000
		Total Ani Division					9185000
Total Treatment of Nalla							
							13940000
c) Road Side Erosion Control	Rampur	Sarahan	Genvi to Labana Sadana				30000
		Rampur	Talai N H 22				60000
		Bahli	Bhadrash to Brandali				35000
		Nankhari	Pandadhar to Nankhari				30000
			Total				155000
	Ani	Arzu	Kazu Khad to Kuni Khad				60000
			Brow to Bazirbawli				80000
			Aveni Ghatu & Aveni Bai				62000
			BiPul to Chhaleer				35000
			BiPul to Khobar				30000
		Nither	Nirh pul to Mon Road				90000
			Total				337000
Total Road Side Erosion Control							
							492000
6. Avenue Planting & Land Escaping	Rampur	Sarahan					
		Rampur					
		Bahli					
		Nankhari					
	Ani	Arzu					
		Nither					
			Total				
7. Forest Infrastructure Development							
a) Repair of Forest Paths	Rampur	Sarahan	Koot to Bajwidhar				25000
			Jaghori to Bajwidhar				20000
			Suga to Gamughati				25000
		Rampur	Munish to Daranghati				80000
		Bahli	Sungri to Surad				80000
			Tacklech to Darkai				70000
		Nankhari	K/Munder to Bai Bahli				50000
			Total				350000
	Ani	Arzu	Sarga				80000
			Jhakri Jhula to Sarsha				80000
			Randal to Nobag				15000
			Prantia to Chunagai				50000
		Nither	Nither to Bagouni				75000
			Shamoh to Kaidhar				40000
			Kaidhar to Karkanibag				120000
			Total				460000
Total Repair of Forest Paths							
							810000
b) Repair / construction of operational buildings	Rampur	Sarahan	Repair of i/Hut Jaghori				15000
			v/c Construction of Kitchen				45000
		Rampur	Repair of FG Hut Nogli				30000
			Repair of FRH Nogli				150000
			Construction of Community Centre Rampur / Nogli (Partly)				500000
		Bahli	FG Hut Tacklech				35000
			BO Qtr. Bahli				50000
		Nankhari	i/Hut Bai-Bahli				55000
			Total				880000
	Ani	Arzu	FG Hut Sarga				30000
			i/Hut Kharga				80000
			FG Hut Tunan				60000
			BO Qtr. & FG Hut & Mali Hut at Arzu				150000
			FG Hut Sarahan				50000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Nither	Repair BO Qtr. Nither				50000
			Repair R O Office cum Residence				80000
			FG Hut Saraher				25000
			FG Hut Margi				25000
			Total				550000
			Total Repair / construction of operational buildings				1430000
c) Farm Ponds	Rampur	Sarahani		No.	3	L / S	75000
		Rampur			1		25000
		Bahli					0
		Nankhani			2		50000
		Total			6		150000
	Ani	Arasu			4		100000
		Nither			3		75000
		Total			7		175000
			Total Farm Ponds		13		325000
d) Soil and Water Harvesting Structure	Rampur	Sarahani					0
		Rampur	Khanewli	No.	1		150000
		Bahli					0
		Nankhani	Thali		1		150000
		Total			2		300000
	Ani	Arasu	Nimand		1		150000
		Nither	Khobri Khad		1		150000
			Ghatu / Bashadhal		1		150000
		Total			3		450000
			Total Soil and Water Harvesting Structure		5		750000
B. Rural Infrastructural Development							
a) Village Ponds & Tanks	Rampur	Sarahani	Labana	No.	1		35000
		Rampur	Shingla	No.	1		35000
			Khanoli	No.	1		35000
			Majhali	No.	1		35000
		Bahli	Barshol-Sen	No.	1		35000
		Nankhani	Chekti	No.	1		35000
		Total			6		210000
	Ani	Arasu	Tandi	No.	1		35000
			Bawa	No.	1		35000
			Kasholi	No.	1		35000
			Tinder	No.	1		35000
		Nither	Anas	No.	1		35000
			Koil	No.	1		35000
			Naluage	No.	1		35000
		Total			7		245000
			Total Village Ponds & Tanks		13		455000
b) Repair of Springs, Bawari & other Water Sources	Rampur	Sarahani	Labana	No.	1		20000
			Dheu		1		20000
		Rampur	Thanel		1		20000
			Selra		1		20000
			Masarana		1		20000
			Sanai		1		20000
			Jaghot		1		20000
			Kool		1		20000
		Bahli	Jarashi		1		20000
			Dhansha		1		20000
			Sen Majhali		1		20000
			Mandali		1		20000
		Nankhani	kater/fouhli		1		20000
			Nawan(shanai-bai)		1		20000
		Total			14		280000
	Ani	Arasu	Mohali(khul)	Km.	1	L/S	80000
			Koeage	No.	1	L/S	20000
			Natala		1	L/S	20000
			Tharvi		1	L/S	20000
			Bagpul		1	L/S	20000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Nither	Katoge(Khul)	Km		L/S	40000
			Jhal		1	L/S	20000
			Sharsaha		1	L/S	20000
			Lange Khul	Km		L/S	75000
		Total			6		315000
Total Repair of Springs, Dawari & Other Water Sources					20		595000
c) Strengthening of Village Road & Path	Rampur	Sarahan	Middle Bathara to Crematoria				35000
			Maguni to Kinoo				15000
			Kastain vill. To Sarpara				25000
			Kaio to Chandidhar				40000
			Nanti Khad to Tikker				40000
		Rampur	Faindhar to NH 22				50000
			Rampur to Oda				50000
			P/House Nogli to Kaladigad Tansen				60000
			Nogli to Kalna				25000
			Dalot to Kamlahoo				40000
			Badhrash to Khawaru				40000
			Dansa to Jaguni				40000
		Bahli	Chowka vill.				40000
		Nankhan	Shoh Vill				50000
			Nawan Vill-part-II				100000
		Total					650000
	Ani	Arso	Jawagi to Tinder				40000
			Kasholi to Pankwa				110000
			Reushal to Nagad				110000
		Nither	Moin Jhulla to Moin				50000
			Kanda to Katmore				50000
			Chimti to Margi				40000
		Total					400000
Total Strengthening of Village Road & Path							1050000
d) Construction of Foot Bridges	Rampur	Sarahan	Nanti Bridge				70000
		Rampur	Latala Khad				90000
		Bahli	On Surad Khamadi B/Path				90000
		Nankhan	Bando Khad				90000
		Total					340000
	Ani	Arso	Kurpan Khad Near Jawagi				80000
			Bji Khad				50000
			Bada (Pali)				50000
			Repair of Kasholi Bridge				80000
		Nither	Bnjhar				90000
			Braulanala				90000
		Total					440000
Total Construction of Foot Bridges							780000
9. Treatment of Private Land	Rampur	Sarahan		Ha			0
		Rampur	Kumsu Devta Sahi	Ha			300000
		Bahli		Ha			0
		Nankhan		Ha			0
		Total					300000
	Ani	Arso	Ooba	Ha			35000
			Dogli	Ha			35000
			Nagadi	Ha			50000
		Nither	Nither	Ha			110000
			Rato	Ha			30000
		Total					260000
Total Treatment of Private Land							560000
10. Fuel Saving Devices							
a) Construction of crematoria	Rampur	Sarahan		No.	0		0
		Rampur	Saneri	No.	1		75000
		Bahli		No.	0		0
		Nankhan	Barach (Naunaf)	No.	1		75000
		Total			2		150000
	Ani	Arso	Aven	No.	1		75000
			Kasholi	No.	1		75000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Nither	Moni		1		75000
		Total			3		225000
		Total Construction of Crematoria			5		375000
b) Distribution of Pressure cookers/ Biogas Chulahas	Rampur	Sarahan	Sarpara Beat				10000
		Rampur	Deothi Block				10000
			Nogli Block				10000
		Bahli	Tacklech Block				10000
		Nankhari					0
		Total					40000
	Ani	Arzu	Kharga Beat				10000
			Nimand Beat				10000
			Brow Beat (Ksholi)				10000
			Shamari Beat				10000
		Nither	Koil Beat				10000
		Total					50000
		Total Distribution of P.Cookers/ Chulahas					90000
11. Construction of Rain Water Harvesting	Rampur	Sarahan			0		0
		Rampur	Umi	No.	1		100000
		Bahli	Shangrai		1		100000
			Ladana		1		100000
		Nankhari	Jhinghoo		1		100000
		Total			4		400000
	Ani	Arzu	Kosh		1		125000
		Nither	Bathwa		1		125000
		Total			2		250000
		Total Const. of Rain Water Harvesting			6		650000
12. Wild Life Improvement							
A) Intensive Mangement of Wildlife							
(i) Protection of Forest and Wildlife							
a) Repair of Existing Boundary Pillars	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					15000
	Ani	Arzu					0
		Nither					0
		Total					15000
		Total Repair of Existing B.P.					30000
b) Improvement of Wireless Communication System	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					75000
	Ani	Arzu					0
		Nither					0
		Total					50000
		Total Imp. Of WCS.					125000
c) Equipment i.e. Fire Fighting	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arzu					0
		Nither					0
		Total					0
		Total Equipment i.e. Fire Fighting					0
d) Debris Disposal	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					50000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Ani	Arsu					0
		Nither					0
		Total					50000
		Total Debris Disposal					100000
<i>ii) Veterinary Facilities / Vaccination of Domestic Cattle</i>	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					20000
	Ani	Arsu					0
		Nither					0
		Total					20000
		Total Veterinary Facilities					40000
<i>iii) Reward/Incentives to the informers</i>	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					20000
	Ani	Arsu					0
		Nither					0
		Total					20000
		Total Reward/Incentives to the Informers					40000
<i>iv) Anti Poaching Activities</i>	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					20000
	Ani	Arsu					0
		Nither					0
		Total					20000
		Total Anti Poaching Activities					40000
<i>vi) Habitat Improvement</i>	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					75000
	Ani	Arsu					0
		Nither					0
		Total					100000
		Total Habitat Improvement					175000
<i>vii) Nature Awareness Camp</i>	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					20000
	Ani	Arsu					0
		Nither					0
		Total					20000
		Total NAC					40000
<i>viii) Wildlife Census Operations in Outside protected areas</i>	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total WL Census Operations					0
<i>ix) Sign and Slogan Boards</i>	Rampur	Sarahan					0
		Rampur					0
		Bahli					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
			Nankhan				0
			Total				40000
	Ani		Arsu				0
			Nither				0
			Total				40000
Total Sign & Slogan Boards							80000
B) Eco Development Activities							
<i>i) Village Support Activities (Including Sanitation etc.)</i>							
	Rampur		Sarahan				0
			Rampur				0
			Bahli				0
			Nankhari				0
			Total				150000
	Ani		Arsu				0
			Nither				0
			Total				150000
Total VS Activities							300000
<i>ii) Development of NTFP</i>							
	Rampur		Sarahan				0
			Rampur				0
			Bahli				0
			Nankhan				0
			Total				100000
	Ani		Arsu				0
			Nither				0
			Total				100000
Total Development of NTFP							200000
<i>iii) Eco Tourism Activities</i>							
	Rampur		Sarahan				0
			Rampur				0
			Bahli				0
			Nankhan				0
			Total				25000
	Ani		Arsu				0
			Nither				0
			Total				25000
Total ET Activities							50000
<i>iv) Income Generation Activities (Vermi Composting)</i>							
	Rampur		Sarahan				0
			Rampur				0
			Bahli				0
			Nankhan				0
			Total				0
	Ani		Arsu				0
			Nither				0
			Total				0
Total IG Activities							0
13. Forest Protection							
<i>a) Clearance of Fire Line</i>							
	Rampur		Sarahan				0
			Rampur				0
			Bahli				0
			Nankhari				0
			Total				20000
	Ani		Arsu				0
			Nither				0
			Total				20000
Total Clearance of Fire Line							40000
<i>b) Engagement of Fire Watchers & Fire Fighting Squads</i>							
	Rampur		Sarahan	No.	1		3500
			Rampur	No.	2		7000
			Bahli	No.	2		7000
			Nankhan	No.	1		3500
			Fire fighting squads			L/S	75000
			Total		6		96000
	Ani		Arsu	No.	8		28000
			Nither	No.	4		14000
			Fire fighting squads			L/S	75000
			Total		12		117000
Total Eng. Fire Watchers					18		213000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
c) Purchase of Fire Fighting Equipments	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total Purchase of F.F.Equipments					0
d) Construction of Watch Tower	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total Const. WT					0
e) Construction of Gange Huts	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					400000
	Ani	Arsu					0
		Nither					0
		Total					400000
		Total Const. GH					800000
f) Improvement of Communication System	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total ICS					0
14. Training And Studies	Rampur						100000
	Ani						100000
	Total						200000
15. Awareness & Publicity	Rampur						200000
	Ani						200000
	Total						400000
16. Operational Supports							
a) Esstt. Charges	Rampur						0
	Ani						0
	Total						0
b) Office Expenditure	Rampur						25000
	Ani						50000
	Total						75000
c) Travelling Expenditure	Rampur						10000
	Ani						30000
	Total						40000
d) Office Equipment	Rampur						0
	Ani		Photocopier and one Digital camera in kind from user agency	1 No.			200000
	Total						200000
e) Operational Mobility	Rampur						300000
	Ani						300000
	Total						600000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
f) Amenities to Staff and Labour	Rampur						10000
	Ani						10000
	Total						20000
g) Motor Vehicle	Rampur						50000
	Ani						50000
	Total						100000
17. Agricultural Supports	Rampur						400000
	Ani						500000
	Total						900000
18. Horticultural Supports	Rampur						100000
	Ani						100000
	Total						200000
19. Animal Husbandary Support	Rampur						150000
	Ani						150000
	Total						300000
20. Contingency	Rampur						23196.00
	Ani						32623.00
	Total						558196.00
Grand Total							8140156.00

1015000

3rd YEAR COMPONENT WISE WORK SCHEDULE							
Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
1. Establishment of CAT Plan Nursery	Rampur						0
	Ani						0
		Total					0
2. Forest Conservation & Improvement							
a) Afforestation of Degraded Forest Lands	Rampur	Sarahan		Ha.	0	33500	0
		Rampur		Ha.	35	33500	1172500
		Bahli		Ha.	20	33500	670000
		Nankhan		Ha.	25	33500	837500
		Total			80		2680000
	Ani	Arsu		Ha.	75	33500	2512500
		Nither		Ha.	75	33500	2512500
		Total			150		5025000
		Total			230		7705000
1st Year Maintenance	Rampur	Sarahan		Ha.	25	3980	99500
		Rampur		Ha.	35	3980	139300
		Bahli		Ha.	25	3980	99500
		Nankhan		Ha.	25	3980	99500
		Total			110		437800
	Ani	Arsu		Ha.	95	3980	378100
		Nither		Ha.	85	3980	338300
		Total			180		716400
		Total			290		1154200
2nd Year Maintenance	Rampur	Sarahan		Ha.	20	3100	62000
		Rampur		Ha.	35	3100	108500
		Bahli		Ha.	25	3100	77500
		Nankhan		Ha.	30	3100	93000
		Total			110		341000
	Ani	Arsu		Ha.	70	3100	217000
		Nither		Ha.	80	3100	248000
		Total			150		465000
		Total			260		806000
Total Degraded Forest Land					780		965200
b) Replenishment Afforestation	Rampur	Sarahan		Ha.	0	28000	0
		Rampur		Ha.	25	28000	700000
		Bahli		Ha.	35	28000	980000
		Nankhan		Ha.	20	28000	560000
		Total			80		2240000
	Ani	Arsu		Ha.	35	28000	980000
		Nither		Ha.	25	28000	700000
		Total			60		1580000
		Total			140		3920000
1st Year Maintenance	Rampur	Sarahan		Ha.	0	2780	0
		Rampur		Ha.	25	2780	69500
		Bahli		Ha.	35	2780	97300
		Nankhan		Ha.	20	2780	55600
		Total			80		222400
	Ani	Arsu		Ha.	45	2780	125100
		Nither		Ha.	35	2780	97300
		Total			80		222400
		Total			160		444800
2nd Year Maintenance	Rampur	Sarahan		Ha.	25	2300	57500
		Rampur		Ha.	30	2300	69000
		Bahli		Ha.	30	2300	69000
		Nankhan		Ha.	15	2300	34500
		Total			100		230000
	Ani	Arsu		Ha.	30	2300	69000
		Nither		Ha.	30	2300	69000
		Total			60		138000
		Total			160		368000
Total Replenishment Afforestation					460		4732800
c) Assisted Natural Regeneration	Rampur	Sarahan		Ha.	0	22500	0
		Rampur		Ha.	0	22500	0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Bahli		Ha	20	22500	450000
		Nankhan		Ha	30	22500	675000
		Total			50		1125000
	Ani	Arsu		Ha	40	22500	900000
		Nither		Ha	15	22500	337500
		Total			55		1237500
	Total				105		2362500
1st Year Maintenance	Rampur	Sarahan		Ha	30	1900	57000
		Rampur		Ha	25	1900	47500
		Bahli		Ha	0	1900	0
		Nankhari		Ha	30	1900	57000
		Total			85		161500
	Ani	Arsu		Ha	50	1900	95000
		Nither		Ha	25	1900	47500
		Total			75		142500
	Total				160		304000
2nd Year Maintenance	Rampur	Sarahan		Ha	20	1650	33000
		Rampur		Ha	0	1650	0
		Bahli		Ha	0	1650	0
		Nankhari		Ha	20	1650	33000
		Total			40		66000
	Ani	Arsu		Ha	30	1650	49500
		Nither		Ha	0	1650	0
		Total			30		49500
	Total				70		115500
Total Assisted Natural Regeneration					335		2782000
d) Development of Medicinal Plant (New)	Rampur	Sarahan		Ha	15	29300	439500
		Rampur		Ha	10	29300	293000
		Bahli		Ha	10	29300	293000
		Nankhan		Ha	0	29300	0
		Total			35		1025500
	Ani	Arsu		Ha	25	29300	732500
		Nither		Ha	25	29300	732500
		Total			50		1465000
	Total				85		2490500
1st Year Maintenance	Rampur	Sarahan		Ha	15	4700	70500
		Rampur		Ha	10	4700	47000
		Bahli		Ha	5	4700	23500
		Nankhari		Ha	0	4700	0
		Total			30		141000
	Ani	Arsu		Ha	25	4700	117500
		Nither		Ha	0	4700	0
		Total			25		117500
	Total				55		258500
Total Development of Medicinal Plant					140		2749000
3. Pasture Improvement							
a) Alpine Pastures (New)	Rampur	Sarahan		Ha	5	8800	44000
		Rampur		Ha	5	8800	44000
		Bahli		Ha	0	8800	0
		Nankhan		Ha	0	8800	0
		Total			10		88000
	Ani	Arsu		Ha	10	8800	88000
		Nither		Ha	0	8800	0
		Total			10		88000
	Total				20		176000
b) Low Lying Pastures (New)	Rampur	Sarahan		Ha	5	27250	136250
		Rampur		Ha	5	27250	136250
		Bahli		Ha	15	27250	408750
		Nankhan		Ha	10	27250	272500
		Total			35		953750
	Ani	Arsu		Ha	35	27250	953750
		Nither		Ha	25	27250	681250
		Total			60		1635000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
1st Year Maintenance	Total				95		2588750
	Rampur	Sarahan		Ha	0	2850	0
		Rampur		Ha	0	2850	0
		Bahli		Ha	0	2850	0
		Nankhari		Ha	0	2850	0
		Total			0		0
	Ani	Arsu		Ha	20	2850	57000
		Nither		Ha	10	2850	28500
		Total			30		85500
Total Low Lying Pasture					30		85500
4. Subsidiary Silvicultural Operation					125		2674250
	Rampur	Sarahan		Ha	0	2500	0
		Rampur		Ha	0	2500	0
		Bahli		Ha	0	2500	0
		Nankhari		Ha	0	2500	0
		Total			0		0
	Ani	Arsu		Ha	0	2500	0
		Nither		Ha	0	2500	0
		Total			0		0
		Total			0		0
5. Soil And Moisture Conservation Works							
a) Stabilization of Active Land Side	Rampur	Sarahan	Aksha Bhagawat				350000
			Shindhar				250000
		Rampur	Kalyanpur				150000
			Setla				275000
			Kuhai				450000
			Seri				225000
			Urman				175000
			Metalani				350000
			Dakotar				300000
			Chakti				150000
		Bahli	Kukhi				200000
			Darkali				200000
		Nankhan	C-114				150000
Total Rampur Division =							3225000
	Ani	Arsu	Shroo				170000
			Badari				170000
			Jagun Nallah				170000
			Ropru Nallah				238000
			Bada Nallah				204000
			Devidhar				68000
			Kades Village				400000
			Arso Nalla				204000
			Summa/ Kasholi /Prantla				476000
			Shakuri / Bulni				340000
			Ragadi / Chaniage				340000
			Nagadi (UPF Shalat)				340000
			Oahwa				612000
		Nither	Charni				238000
			Koil Nalla				175000
			Sharshaha				204000
			Manjhwa				204000
			Lange				204000
			Bathwa				204000
			Sarahar				136000
			Koil				136000
Total Ani Division							1360000
Total Active land slide							4523000
							8458000
b) Treatment of Nallas	Rampur	Sarahan	Gaher Nalla				100000
			Kandhar Nalla				115000
			Suga Nalla				115000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
			Gartada				225000
		Rampur	Racholi Nalla				125000
			Brelta Nalla				175000
			Kalyanpur Nalla				150000
			Lahsa Nalla				150000
			Nogli Nalla				100000
			Serti Nalla				115000
			Power House Nalla				375000
			Uroo Nallas				135000
			Shingla Nalla				135000
			Chadani nalla				100000
			Keshog Nalla				100000
			Gandla Nalla				115000
			Patana Nalla				115000
			Deothi Nalla				275000
			Kaladi Nalla				100000
			Munish Bahli Nalla				175000
			Matona Nalla				135000
			Jogni Nalla				100000
		Bahli	Sosali				70000
			Dawala				100000
			Majheothi				80000
			Paljara				80000
			Sarota				100000
			Odi Gad				100000
			Majholi				100000
			Ghat				100000
			Mandoli				100000
			Kaleda				80000
			Karoli				100000
			Ketu				100000
			Sanedi Gad (Batheda)				150000
			Lada				150000
			Kuban Damrali				150000
			Theda				150000
		Nankhari	Binder Nalla				100000
			Gutti Nalla				100000
			Setla Nalla				125000
			Punan Nalla				100000
			Koftu Nalla				100000
			Bahali Nalla				100000
			Tangri Nalla				100000
			Karoli Nalla				100000
		Total Rampur Division					5765000
		Ani	Arzu				750000
			Kuni Khad (Shroo)				600000
			Badari Nalla				500000
			Deodhank Nalla				500000
			Basi Nalla				600000
			Pashadi / Koe Nalla				600000
		Nither	Chintha				575000
			Dhanan Nalla				575000
			Kunish				575000
			KulaDhartu				600000
			Jorla Nalla				225000
			Kuni Nalla				200000
			Bathwa				450000
		Total Ani Division					6550000
		Total Treatment of Nalla					12316000
c) Road Side Erosion Control	Rampur	Sarahan	Garvi to Kiao Road				30000
		Nankhari	Pandadhar to Ninoo				30000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
							60000
	Total Rampur Division						60000
	Ani	Arsu	Chats to Jagatkhana				30000
			Brow to Poshna				40000
			B/Pul to Chana Gad				85000
		Nither	Koil to Shanha				205000
			Total				265000
	Total Road Side Erosion Control						0
6. Avenue Planting & Land Escaping	Rampur	Sarahan					60000
		Rampur	Kalyanpur				0
		Bahli					0
		Nankhari					60000
	Total Rampur Division						24000
	Ani	Arsu	Jhakra Jhulla to Kazukhad				21000
			Averi Ball Road				18000
			Stangidhar, Chamboo school compound				15000
			Tikri Kenchi to Arsu				30000
			B/Pul to Sarahan				69600
		Nither	Lalanda				177600
			Total				237600
	Total Avenue Planting & Land Escaping						25000
7. Forest Infrastructure Development							80000
a) Repair of Forest Paths	Rampur	Sarahan	Ganughati to Phancha				40000
			Phancha to Jaghori				0
			Jaghori to Chungidhar				0
		Rampur					50000
		Bahli	Bahli to Surad				50000
			Surad to Khamadi				20000
		Nankhari	Bahli to Khadrals				35000
			Khanog to Nankhari				300000
			Total				60000
	Ani	Arsu	Kharga				35000
			Chati to Oddidhar & Pranta to Tunan				40000
			Bava to Menda				60000
		Nither	Shila to Sangwa				30000
			Erogri to Nardi				75000
			Karkanibag to Charanda				300000
			Total				600000
	Total Repair of Forest Paths						60000
b) Repair / construction of operational buildings	Rampur	Sarahan	Repair of B.O. Qtr. Jhagori				85000
			Repair of FRH Phancha				100000
		Rampur	Repair of Compound / Qtr. In Pigty Colony				1500000
			Construction of Community Centre Rampur / Nogli (Completion)				80000
		Bahli	Repair of FRH Surad				55000
		Nankhari	Repair of FG Hut Nankhari				1880000
			Total				100000
	Ani	Arsu	Repair of FG Hut & Rest House at Brow				180000
			Repair of BO Qtr. FG & Mali Hut at Nirmank				50000
			Repair of FG Hut Shamani (Sakan)				40000
		Nither	Repair of FRH Nither				60000
			Repair of FGH Katmore				430000
			Total				2310000
	Total Repair / construction of operational buildings						0
c) Farm Ponds	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Total			0		0
	Ani	Arsu			6		150000
		Nither					0
		Total			6		150000
		Total Farm Ponds			6		150000
d) Soil and Water Harvesting Structure	Rampur	Sarahan					0
		Rampur	Shingla	No.	1		150000
		Bahli					0
		Nankhari	Bahli		1		150000
			Pandadhar		1		150000
		Total			3		450000
	Ani	Arsu	Kosh		1		150000
		Nither	Bajon		1		150000
		Total			2		300000
		Total Soil and Water Harvesting Structure			5		750000
8. Rural Infrastructural Development							
a) Village Ponds & Tanks	Rampur	Sarahan	Kandhar	No.	1		35000
		Rampur	Puna	No.	1		35000
			Takai	No.	1		35000
			Kuhul	No.	1		35000
		Bahli		No.			0
		Nankhari	Shol	No.	1		35000
		Total			5		175000
	Ani	Arsu	Gaon Bil	No.	1		35000
			Chambo	No.	1		35000
			Arsu (Tangoor)	No.	1		35000
		Nither	Margi (Laral)	No.	1		35000
			Khedvecha	No.	1		35000
		Total			5		175000
		Total Village Ponds & Tanks			10		350000
b) Repair of Springs, Bawari & other Water	Rampur	Sarahan	Kandhar				20000
			Kinoo				20000
		Rampur	Kumsu				20000
			Kamlaahu				20000
			Rai Bai Saran				20000
			Deothi				20000
			Rohanoo				20000
			Chiksa				20000
		Bahli	Dalog/ Devnagar				20000
			Lai Pani				20000
			Buenthal				20000
			Devi Dhar				20000
		Nankhari	Jhingnoc				20000
			Tangri / Karoli				20000
		Total					280000
	Ani	Arsu	Kharga				20000
			Chambu				20000
			Dogari				20000
			Bogabaz				20000
		Nither	Nagage				20000
			Sharot Khul	Km.	1		80000
			Lalpani (water spring)				20000
			Nogalnai				20000
		Total					220000
		Total Repair of Springs, Bawari & Other Water Sources					500000
c) Strengthening of Village Road & Path	Rampur	Sarahan	Uppar Baranda to Lower Baranda				40000
			Ganvi to Nirvi				40000
			Samej Road to PH.K				25000
			Bathara to Shahdhar				30000
			Lotuwa to Kinoo				15000
		Rampur	Munish Bahli to Thala				50000
			Pat to Kasha				50000
			Darshal to Kim				50000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
			Laisa to Pau				40000
			Kareri to GMS Kareri				30000
			Soom to Bakal				40000
			Khanaoli to Neri				40000
		Bahli	Bashali VII.				35000
		Nankhari	Karoli VII.				60000
			Kungal				60000
			Total				605000
	Ani	Arso	Kaloti to Baghir				40000
			Kasholi to Chunaghai				110000
			Pachanda to Tharvi				40000
			Sharunal to Kindla				80000
		Nither	Kanda to Kofa				40000
			Kol to Roprinal				70000
			Urtu to Panaina				50000
			Total				430000
			Total Strengthening of Village Road & Path				1035000
d) Construction of Foot Bridges	Rampur	Sarahan	BaraKhad (Garvi)				70000
		Rampur	Deothi Khad				90000
		Bahli					0
		Nankhari	Kungal Munder				90000
			Total				250000
	Ani	Arso	Chhaleeler nalla				50000
			Ishwa				50000
			Dogri Khad				40000
			Bochka Khad				40000
		Nither	Ropeway over river Satlu				150000
			Total				330000
			Total Construction of Foot Bridges				580000
9. Treatment of Private Land	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
			Total				0
	Ani	Arso	Shil				35000
			Kaholi				35000
		Nither	Charani				30000
			Sandawar				30000
			Total				130000
			Total Treatment of Private Land				130000
10. Fuel Saving Devices							0
a) Construction of crematoria	Rampur	Sarahan					0
		Rampur	Khaneoli	No.	1		75000
		Bahli					0
		Nankhari	Nawan		1		75000
			Total		2		150000
	Ani	Arso	Jagatkhana		1		75000
			Bulni		1		75000
		Nither	Shani		1		75000
			Total		3		225000
			Total Construction of Crematoria		5		375000
b) Distribution of Pressure cookers/ Biogas	Rampur	Sarahan					0
		Rampur	Munish Beat				10000
		Bahli					0
		Nankhari					0
			Total				10000
	Ani	Arso	Aveni Beat				10000
			Pujari Beat				10000
		Nither	Nore Beat				10000
			Total				30000
			Total Distribution of P.Cookers/ Chullahas				40000
11. Construction of Rain Water Harvesting	Rampur	Sarahan					0
		Rampur					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Bahli	Devnagar		1		100000
		Nankhari	Bai		1		100000
		Total			2		200000
	Ani	Arso	Chilla nal		-1		125000
		Nither					0
		Total			1		125000
		Total Const. of Rain Water Harvesting			3		325000
12. Wild Life Improvement							
A) Intensive Mangement of Wildlife							
<i>i) Protection of Forest and Wildlife</i>							
a) Repair of Existing Boundary Pillars							
	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					15000
	Ani	Arso					0
		Nither					0
		Total					15000
		Total Repair of Existing B.P.					30000
b) Improvement of Wireless Communication System							
	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arso					0
		Nither					0
		Total					0
		Total Imp. Of WCS					0
c) Equipment i.e. Fire Fighting							
	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					75000
	Ani	Arso					0
		Nither					0
		Total					75000
		Total Equipment i.e. Fire Fighting					150000
d) Debris Disposal							
	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					50000
	Ani	Arso					0
		Nither					0
		Total					50000
		Total Debris Disposal					100000
ii) Veterinary Facilities / Vaccination of Domestic Cattle							
	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					20000
	Ani	Arso					0
		Nither					0
		Total					20000
		Total Veterinary Facilities					40000
iii) Reward/Incentives to the informers							
	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					20000
	Ani	Arso					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount	
		Nither					0	
		Total					20000	
		Total Reward/Incentives to the informans						40000
<i>IV) Anti Poaching Activities</i>	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhari					0	
		Total					20000	
	Ani	Ansu					0	
		Nither					0	
		Total					20000	
		Total Anti Poaching Activities						40000
<i>V) Habitat Improvement</i>	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	
		Total					100000	
	Ani	Ansu					0	
		Nither					0	
		Total					100000	
		Total Habitat Improvement						200000
<i>VI) Nature Awareness Camp</i>	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	
		Total					20000	
	Ani	Ansu					0	
		Nither					0	
		Total					20000	
		Total NAC						40000
<i>VII) Wildlife Census Operations in Outside protected areas</i>	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	
		Total					100000	
	Ani	Ansu					0	
		Nither					0	
		Total					100000	
		Total Wl. Census Operations						200000
<i>VIII) Sign and Slogan Boards</i>	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	
		Total					40000	
	Ani	Ansu					0	
		Nither					0	
		Total					40000	
		Total Sign & Slogan Boards						80000
B) Eco Development Activities								
<i>i) Village Support Activities (Including Sanitation etc.)</i>	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	
		Total					200000	
	Ani	Ansu					0	
		Nither					0	
		Total					250000	
		Total VS Activities						450000
<i>ii) Development of NTFP</i>	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhan					0	

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total Development of NTFP					0
III) Eco Tourism Activities	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					25000
	Ani	Arsu					0
		Nither					0
		Total					25000
		Total ET Activities					50000
IV) Income Generation Activities (Vermi Composting)	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					100000
	Ani	Arsu					0
		Nither					0
		Total					100000
		Total IG Activities					200000
13. Forest Protection							
a) Clearance of Fire Line	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					20000
	Ani	Arsu					0
		Nither					0
		Total					15000
		Total Clearance of Fire Line					35000
b) Engagement of Fire Watchers & Fire Fighting Squads	Rampur	Sarahan		No	1		3500
		Rampur		No	2		7000
		Bahli		No	2		7000
		Nankhan		No	1		3500
		Fire fighting squads				L/S	75000
		Total			6		98000
	Ani	Arsu		No	8		28000
		Nither		No	4		14000
		Fire fighting squads				L/S	75000
		Total			12		117000
		Total Eng. Fire Watchers			18		213000
c) Purchase of Fire Fighting Equipments	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total Purchase of F.F.Equipments					0
d) Construction of Watch Tower	Rampur	Sarahan					0
		Rampur					0
		Bahli	Baldhar				175500
		Nankhan					0
		Total					175500
	Ani	Arsu	Chunagal				175500
		Nither					0
		Total					175500

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Total Const. WT						351000
e) Construction of Gang Huts.	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
	Total Const. GH						0
f) Improvement of Communication System	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					150000
	Ani	Arsu					0
		Nither					0
		Total					150000
	Total ICS						300000
14. Training And Studies	Rampur						50000
	Ani						100000
	Total						150000
15. Awareness & Publicity	Rampur						250000
	Ani						250000
	Total						500000
16. Operational Supports							
a) Esstl Charges	Rampur						0
	Ani						0
	Total						0
b) Office Expenditure	Rampur						25000
	Ani						50000
	Total						75000
c) Travelling Expenditure	Rampur						10000
	Ani						30000
	Total						40000
d) Office Equipment	Rampur						0
	Ani						0
	Total						0
e) Operational Mobility	Rampur						300000
	Ani						300000
	Total						600000
f) Amenities to Staff and Labour	Rampur						10000
	Ani						10000
	Total						20000
g) Motor Vehicle	Rampur						50000
	Ani						50000
	Total						100000
17. Agricultural Supports	Rampur						550000
	Ani						750000
	Total						1300000
18. Horticultural Supports	Rampur						150000
	Ani						150000
	Total						300000
19. Animal Husbandary Support	Rampur						200000
	Ani						200000
	Total						400000
20. Contingency	Rampur						2584345
	Ani						3126040
	Total						5720385
Grand Total							62924235

4th YEAR COMPONENT WISE WORK SHEDULE								
Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount	
1. Establishment of CAT Plan Nursery	Rampur							0
	Ani							0
		Total						0
2. Forest Conservation & Improvement								
a) Afforestation of Degraded Forest Lands	Rampur	Sarahan						0
New		Rampur						0
		Bahli						0
		Nankhari						0
		Total						0
	Ani	Arsu						0
		Nither						0
		Total						0
		Total				0		0
1st Year Maintenance	Rampur	Sarahan		Ha	0	3980		0
		Rampur		Ha	35	3980		139300
		Bahli		Ha	20	3980		79600
		Nankhari		Ha	25	3980		99500
		Total			80			318400
	Ani	Arsu		Ha	75	3980		298500
		Nither		Ha	75	3980		298500
		Total			150			597000
		Total				230		915400
2nd Year Maintenance		Sarahan		Ha	25	3100		77500
		Rampur		Ha	35	3100		108500
		Bahli		Ha	25	3100		77500
		Nankhari		Ha	25	3100		77500
		Total			110			341000
	Ani	Arsu		Ha	95	3100		294500
		Nither		Ha	85	3100		263500
		Total			180			558000
		Total				290		899000
3rd Year Maintenance	Rampur	Sarahan		Ha	20	2800		56000
		Rampur		Ha	35	2800		98000
		Bahli		Ha	25	2800		70000
		Nankhari		Ha	30	2800		84000
		Total			110			308000
	Ani	Arsu		Ha	70	2800		196000
		Nither		Ha	80	2800		224000
		Total			150			420000
		Total				260		728000
Total Degraded Forest Land					780			2542400
b) Replenishment Afforestation	Rampur	Sarahan		Ha	0	28000		0
New		Rampur		Ha	0	28000		0
		Bahli		Ha	0	28000		0
		Nankhari		Ha	0	28000		0
		Total			0			0
	Ani	Arsu		Ha	0	28000		0
		Nither		Ha	0	28000		0
		Total			0			0
		Total				0		0
1st Year Maintenance	Rampur	Sarahan		Ha	0	2780		0
		Rampur		Ha	25	2780		69500
		Bahli		Ha	35	2780		97300
		Nankhari		Ha	20	2780		55600
		Total			80			222400
	Ani	Arsu		Ha	35	2780		97300
		Nither		Ha	25	2780		69500
		Total			60			166800
		Total				140		389200
2nd Year Maintenance	Rampur	Sarahan		Ha	0	2300		0
		Rampur		Ha	25	2300		57500
		Bahli		Ha	35	2300		80500

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Nankhan		Ha	20	2300	46000
		Total			80		184000
	Ani	Arsu		Ha	45	2300	103500
		Nither		Ha	35	2300	80500
		Total			80		184000
3rd Year Maintenance		Total			160		368000
	Rampur	Sarahan		Ha	25	2100	52500
		Rampur		Ha	30	2100	63000
		Bahli		Ha	30	2100	63000
		Nankhan		Ha	15	2100	31500
		Total			100		210000
	Ani	Arsu		Ha	30	2100	63000
		Nither		Ha	30	2100	63000
		Total			60		126000
Total Replishment Afforestation		Total			160		336000
c) Assisted Natural Regeneration		Total			460		1093200
	Rampur	Sarahan		Ha	0	22500	0
		Rampur		Ha	0	22500	0
		Bahli		Ha	0	22500	0
		Nankhan		Ha	20	22500	450000
		Total			20		450000
	Ani	Arsu		Ha	25	22500	562500
		Nither		Ha	20	22500	450000
		Total			45		1012500
1st Year Maintenance		Total			65		1462500
	Rampur	Sarahan		Ha	0	1900	0
		Rampur		Ha	0	1900	0
		Bahli		Ha	20	1900	38000
		Nankhan		Ha	30	1900	57000
		Total			50		95000
	Ani	Arsu		Ha	40	1900	76000
		Nither		Ha	15	1900	28500
		Total			55		104500
2nd Year Maintenance		Total			105		199500
	Rampur	Sarahan		Ha	30	1650	49500
		Rampur		Ha	25	1650	41250
		Bahli		Ha	0	1650	0
		Nankhan		Ha	30	1650	49500
		Total			85		140250
	Ani	Arsu		Ha	50	1650	82500
		Nither		Ha	25	1650	41250
		Total			75		123750
3rd Year Maintenance		Total			160		264000
	Rampur	Sarahan		Ha	20	1450	29000
		Rampur		Ha	0	1450	0
		Bahli		Ha	0	1450	0
		Nankhan		Ha	20	1450	29000
		Total			40		58000
	Ani	Arsu		Ha	30	1450	43500
		Nither		Ha	0	1450	0
		Total			30		43500
Total Assisted Natural Regeneration		Total			70		101500
d) Development of Medicinal Plant (New)		Total			400		2027500
	Rampur	Sarahan		Ha	0	29300	0
		Rampur		Ha	0	29300	0
		Bahli		Ha	15	29300	439500
		Nankhan		Ha	0	29300	0
		Total			15		439500
	Ani	Arsu		Ha	15	29300	439500
		Nither		Ha	0	29300	0
		Total			15		439500
Total		Total			30		879000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
1st Year Maintenance	Rampur	Sarahan		Ha	15	4700	70500
		Rampur		Ha	10	4700	47000
		Bahli		Ha	10	4700	47000
		Nankhari		Ha	0	4700	0
			Total		35		164500
	Ani	Arsu		Ha	25	4700	117500
		Nither		Ha	25	4700	117500
			Total		50		235000
			Total		85		399500
	2nd Year Maintenance	Rampur	Sarahan		Ha	15	3300
Rampur				Ha	10	3300	33000
Bahli				Ha	5	3300	16500
Nankhari				Ha	0	3300	0
			Total		30		99000
Ani		Arsu		Ha	25	3300	82500
		Nither		Ha	0	3300	0
			Total		25		82500
			Total		55		181500
			Total		170		1460000
Total Development of Medicinal Plant							
3. Pasture Improvement							
a) Alpine Pastures (New)	Rampur	Sarahan		Ha	0	8800	0
		Rampur		Ha	0	8800	0
		Bahli		Ha	0	8800	0
		Nankhari		Ha	0	8800	0
			Total		0		0
	Ani	Arsu		Ha	15	8800	132000
		Nither		Ha	0	8800	0
			Total		15		132000
			Total		15		132000
	b) Low Lying Pastures (New)	Rampur	Sarahan		Ha	10	27250
Rampur				Ha	10	27250	272500
Bahli				Ha	15	27250	408750
Nankhari				Ha	0	27250	0
			Total		35		953750
Ani		Arsu		Ha	20	27250	545000
		Nither		Ha	25	27250	681250
			Total		45		1226250
			Total		80		2180000
1st Year Maintenance		Rampur	Sarahan		Ha	5	2850
	Rampur			Ha	5	2850	14250
	Bahli			Ha	15	2850	42750
	Nankhari			Ha	10	2850	28500
			Total		35		99750
	Ani	Arsu		Ha	35	2850	99750
		Nither		Ha	25	2850	71250
			Total		60		171000
			Total		95		270750
	2nd Year Maintenance	Rampur	Sarahan		Ha	0	2300
Rampur				Ha	0	2300	0
Bahli				Ha	0	2300	0
Nankhari				Ha	0	2300	0
			Total		0		0
Ani		Arsu		Ha	20	2300	46000
		Nither		Ha	10	2300	23000
			Total		30		69000
			Total		30		69000
			Total		205		2519750
Total Low Lying Pasture							
4. Subsidiary Silvicultural Operation	Rampur	Sarahan		Ha	0	2500	0
		Rampur		Ha	20	2500	50000
		Bahli		Ha	0	2500	0
		Nankhari		Ha	20	2500	50000
			Total		40		100000
	Ani	Arsu		Ha	30	2500	75000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Nither		Ha.	20	2500	50000
		Total			50		125000
		Total			90		225000
5. Soil And Moisture Conservation Works							
a) Stabilization of Active Land Slide							
	Rampur	Sarahan	Chanach				150000
			Badrai				125000
			lothoa				100000
			Chandi-Brandi				250000
			Suru				300000
	Rampur		Chiksa				100000
			Dakolar				250000
		Bahli	Madakhan				200000
		Nankhari					0
	Total Rampur Division						1475000
	Ani	Ansu	Shilgirchi				238000
			Nager Khad				27200
		Nither	Ghahu				102000
			None				136000
			Katmore				136000
	Total Ani Division						639200
	Total Active land slide						2114200
b) Treatment of Nallas							
	Rampur	Rampur	Bai Nalla				135000
			Matalni Nalla				50000
	Total Rampur Division						185000
	Ani	Ansu	Ugar Nalla				600000
			Suma Nalla				600000
			Dagri / Nagadi				600000
			Basli / Shamani				500000
		Nither	Chhuada Nalla				200000
			SurariDapl Nalla				200000
	Total Ani Division						2700000
	Total Treatment of Nalla						2885600
	Total						2885600
c) Road Side Erosion Control							
	Rampur						0
	Ani						0
	Total						0
6. Avenue Planting & Land Escaping							
	Rampur	Sarahan					0
		Rampur	Dakolar				60000
		Bahli					0
		Nankhari					0
	Total						0
	Ani	Ansu	Kazu Khad to Kuni Khad				60000
			Deodhank Temple Path				24000
			Dhaul Temple Area				9000
		Nither	Deoridhar				15000
	Total						12000
	Total Avenue Planting & Land Escaping						60000
	Total						120000
7. Forest Infrastructure Development							
a) Repair of Forest Paths							
	Rampur	Sarahan	Chungi dhar to Khanidhar				25000
			Khanidhar to Kinfee				80000
		Rampur					0
		Bahli					0
		Nankhari					0
	Total						0
	Ani	Ansu					105000
		Nither	Chamda to Dard				70000
			1/15 LoteKayaon				25000
	Total						95000
	Total Repair of Forest Paths						200000
b) Repair / construction of operational buildings							
	Rampur	Sarahan	Repair of lll-Hut Sarpara				30000
		Rampur	Repair of Compound / Qtr. in Piply Colony				100000
		Bahli					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Nankhan					0
		Total					130000
	Ani	Arsu	Repair of RO office at Nirmand				90000
			Repair of RO Residence				80000
			Repair of IHut at Samatan (Singhgad)				125000
			Repair of FG Hut Tharia				90000
		Nither	Repair of IHut Margi				70000
		Total					455000
		Total Repair / construction of operational buildings					585000
c) Farm Ponds	Rampur						0
	Ani						0
		Total					0
d) Soil and Water Harvesting Structure	Rampur						0
	Ani						0
		Total					0
8. Rural Infrastructural Development							
a) Village Ponds & Tanks	Rampur	Sarahan		No.	0		0
		Rampur	Chikasa	No.	1		35000
			Kandi	No.	1		35000
			Nogli	No.	1		35000
		Bahli		No.			0
		Nankhan		No.			0
		Total			3		105000
	Ani	Arsu	Shalat	No.	1		35000
			Shalog	No.	1		35000
		Nither	Noni	No.	1		35000
		Total			3		105000
		Total Village Ponds & Tanks			6		210000
b) Repair of Springs, Bawari & other Water Sources	Rampur	Sarahan	Rajbhai Bathara				20000
			Bari				20000
		Rampur	Kareli				20000
			Barawali				20000
			Kalna				20000
			Khanoli				20000
			Soom				20000
			Khod Bai				20000
		Bahli	Khamadi				20000
			Majheoti				20000
			Bhatanawal				20000
			Marala				20000
		Nankhan	Kandlu				20000
			Bai Bahli				20000
		Total					280000
	Ani	Arsu	Thachwa Khul	Km.	1		80000
			Kasholi, Palli, Geonbil	No.	3		60000
			Sabour		1		20000
		Nither	Sarsher		1		20000
			Dumat		1		20000
			Dharamurgi		1		20000
			Shili Ghatu		1		20000
		Total			9		240000
		Total Repair of Springs, Bawari & Other Water Sources			9		520000
c) Strengthening of Village Road & Path	Rampur	Sarahan	Shrikhand Mahadev to Sarpara				60000
			Footbridge Shamkor to Kaio				40000
			Kastain to Sarpara Road				40000
			Kinoo to Kinoo Kanda				15000
			Bathara to Kuni				25000
		Rampur	Pataina to Thala				50000
			Chabidhar to Kasha				50000
			Dhandhol to Munish				50000
			Basa to Rahnoo				40000
			Uru Besali Road to Uru Huine				60000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
			Shingla to Crimotoriam near Satlu				60000
		Bahli	Nogli to Kumsu				30000
		Nankhari	Beunthal Vill				40000
			Dadhara to Thali				50000
			Bai Bahli				60000
		Total					670000
	Ani	Arso	Bai to Shataidhar				70000
			CaonBil to Gumbi				70000
			Savadhar to Dhar				70000
			Sarahan to Kulapani				40000
		Nither	Arso to Crimotoriam				50000
			Ropru to Klog				40000
		Total					340000
			Total Strengthening of Village Road & Path				1010000
d) Construction of Foot Bridges	Rampur	Sarahan	Sangupul				70000
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					70000
	Ani	Arso	Nagad Bridge				50000
			Boong				50000
			Chanai Gad				50000
		Nither	Bangiogalang Bridge				150000
		Total	Total				300000
			Total Construction of Foot Bridges				370000
9. Treatment of Private Land	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arso	Kasholi (Bali)				75000
			Jagatkhana				75000
		Nither	Koil				30000
			Ishwa				30000
		Total	Total				210000
			Total Treatment of Private Land				210000
10. Fuel Saving Devices							
a) Construction of crematoria	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arso	Pali		1	75000	75000
			Sarahan		1	75000	75000
			Arso		1	75000	75000
		Total	Total		3		225000
			Total Construction of Crematoria		3		225000
b) Distribution of Pressure cookers/ Biogas	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arso					0
		Nither					0
		Total					0
			Total Distribution of P.Cookers/ Chulahas				0
11. Construction of Rain Water Harvestin	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arso					0
		Nither					0
		Total					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount	
			Total				0	
			Total Const. of Rain Water Harvesting					0
12. Wild Life Improvement								
A) Intensive Mangement of Wildlife								
<i>i) Protection of Forest and Wildlife</i>								
a) Repair of Existing Boundary Pillars	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhari					15000	
		Total					0	
	Ani	Arsu					0	
		Nither					15000	
		Total					30000	
		Total Repair of Existing B.P.					0	
b) Improvement of Wireless Communication System	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhari					0	
		Total					0	
	Ani	Arsu					0	
		Nither					0	
		Total					0	
		Total Imp. Of WCS					0	
c) Equipment i.e. Fire Fighting	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhari					0	
		Total					0	
	Ani	Arsu					0	
		Nither					0	
		Total					0	
		Total Equipment i.e. Fire Fighting					0	
d) Debris Disposal	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhari					0	
		Total					0	
	Ani	Arsu					0	
		Nither					0	
		Total					0	
		Total Debris Disposal					0	
ii) Veterinary Facilities / Vaccination of Domestic Cattle	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhari					20000	
		Total					0	
	Ani	Arsu					0	
		Nither					20000	
		Total					40000	
		Total Veterinary Facilities					0	
iii) Reward/Incentives to the informers	Rampur	Sarahan					0	
		Rampur					0	
		Bahli					0	
		Nankhari					15000	
		Total					0	
	Ani	Arsu					0	
		Nither					15000	
		Total					30000	
		Total Reward/Incentives to the informers					0	
iv) Anti Poaching Activities	Rampur	Sarahan					0	
		Rampur					0	

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
			Bahli				0
			Nankhari				0
			Total				20000
	Ani		Arsu				0
			Nither				0
			Total				20000
			Total Anti Poaching Activities				40000
V) Habitat Improvement	Rampur		Sarahan				0
			Rampur				0
			Bahli				0
			Nankhari				0
			Total				75000
	Ani		Arsu				0
			Nither				0
			Total				100000
			Total Habitat Improvement				175000
VI) Nature Awareness Camp	Rampur		Sarahan				0
			Rampur				0
			Bahli				0
			Nankhari				0
			Total				20000
	Ani		Arsu				0
			Nither				0
			Total				20000
			Total NAC				40000
VII) Wildlife Census Operations in Outside protected areas	Rampur		Sarahan				0
			Rampur				0
			Bahli				0
			Nankhari				0
			Total				0
	Ani		Arsu				0
			Nither				0
			Total				0
			Total WL Census Operations				0
VIII) Sign and Slogan Boards	Rampur		Sarahan				0
			Rampur				0
			Bahli				0
			Nankhari				0
			Total				0
	Ani		Arsu				0
			Nither				0
			Total				0
			Total Sign & Slogan Boards				0
B) Eco Development Activities							
i) Village Support Activities (including Sanitation etc.)	Rampur		Sarahan				0
			Rampur				0
			Bahli				0
			Nankhari				0
			Total				150000
	Ani		Arsu				0
			Nither				0
			Total				150000
			Total VS Activities				300000
ii) Development of NTFP	Rampur		Sarahan				0
			Rampur				0
			Bahli				0
			Nankhari				0
			Total				0
	Ani		Arsu				0
			Nither				0
			Total				0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount	
							0	
			Total Development of NTFP					0
III) Eco Tourism Activities	Rampur	Sarahan					0	
		Rampur					0	
		Bahl					0	
		Nankhari					25000	
			Total				0	
	Ani	Arsu						0
		Nither						25000
			Total					50000
			Total ET Activities					0
	IV) Income Generation Activities (Vermi Composting)	Rampur	Sarahan					0
Rampur							0	
Bahl							0	
Nankhari							100000	
			Total				0	
Ani		Arsu						0
		Nither						100000
			Total					200000
			Total IG Activities					0
13. Forest Protection								
a) Clearance of Fire Line	Rampur	Sarahan					0	
		Rampur					0	
		Bahl					0	
		Nankhari					0	
			Total				0	
	Ani	Arsu						0
		Nither						0
			Total					0
			Total Clearance of Fire Line					0
	b) Engagement of Fire Watchers & Fire Fighting Squads	Rampur	Sarahan		No.	1		3500
Rampur				No.	2		7000	
Bahl				No.	2		7000	
Nankhari				No.	1		3500	
						L/S	75000	
							96000	
			Total			6	28000	
Ani		Arsu			No.	8		14000
		Nither			No.	4		75000
							L/S	117000
			Total			12	213000	
		Total Eng. Fire Watchers			18	0		
c) Purchase of Fire Fighting Equipments	Rampur	Sarahan					0	
		Rampur					0	
		Bahl					0	
		Nankhari					0	
			Total				0	
	Ani	Arsu						0
		Nither						0
			Total					0
			Total Purchase of F.F.Equipments					0
	d) Construction of Watch Tower	Rampur	Sarahan					0
Rampur							0	
Bahl							0	
Nankhari							0	
			Total				0	
Ani		Arsu						0
		Nither						0
			Total					0
			Total Const. WT					0
e) Construction of Gang Huts		Rampur	Sarahan					0
	Rampur						0	

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total Const. GH					0
f) Improvement of Communication System	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhari					0
		Total					0
	Ani	Arsu					0
		Nither					0
		Total					0
		Total ICS					0
14. Training And Studies	Rampur						0
	Ani						0
	Total						0
15. Awareness & Publicity	Rampur						300000
	Ani						300000
	Total						600000
16. Operational Supports							
a) Essitt. Charges	Rampur						200000
	Ani						0
	Total						200000
b) Office Expenditure	Rampur						25000
	Ani						50000
	Total						75000
c) Travelling Expenditure	Rampur						10000
	Ani						30000
	Total						40000
d) Office Equipment	Rampur						0
	Ani						0
	Total						0
e) Operational Mobility	Rampur						0
	Ani						300000
	Total						300000
f) Amenities to Staff and Labour	Rampur						10000
	Ani						10000
	Total						20000
g) Motor Vehicle	Rampur						50000
	Ani						50000
	Total						100000
17. Agricultural Supports	Rampur						700000
	Ani						900000
	Total						1600000
18. Horticultural Supports	Rampur						200000
	Ani						200000
	Total						400000
19. Animal Husbandary Support	Rampur						100000
	Total						100000
20. Contingency	Rampur						1119455
	Ani						1370750
	Total						2490205
Grand Total							27292255

V th YEAR COMPONENT WISE WORK SCHEDULE							
Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
1. Establishment of CAT Plan Nursery	Rampur						0
	Ani						0
		Total					0
2. Forest Conservation & Improvement							
a) Afforestation of Degraded Forest Lands	Rampur	Sarahan	Nil				0
New		Rampur	Nil				0
		Bahli	Nil				0
		Nankhan	Nil				0
		Total					0
	Ani	Arsu	Nil				0
		Niher	Nil				0
		Total					0
		Total				0	0
1st Year Maintenance	Rampur	Sarahan	Nil	Ha	0	3980	0
		Rampur	Nil	Ha	0	3980	0
		Bahli	Nil	Ha	0	3980	0
		Nankhan	Nil	Ha	0	3980	0
		Total			0		0
	Ani	Arsu	Nil	Ha	0	3980	0
		Niher	Nil	Ha	0	3980	0
		Total			0		0
		Total			0		0
2nd Year Maintenance	Rampur	Sarahan		Ha	0	3100	0
		Rampur		Ha	35	3100	108500
		Bahli		Ha	20	3100	62000
		Nankhan		Ha	25	3100	77500
		Total			80		248000
	Ani	Arsu		Ha	75	3100	232500
		Niher		Ha	75	3100	232500
		Total			150		465000
		Total			230		713000
3rd Year Maintenance		Sarahan		Ha	25	2800	70000
		Rampur		Ha	35	2800	98000
		Bahli		Ha	25	2800	70000
		Nankhan		Ha	25	2800	70000
		Total			110		308000
	Ani	Arsu		Ha	85	2800	238000
		Niher		Ha	85	2800	238000
		Total			180		504000
		Total			290		812000
4th Year Maintenance	Rampur	Sarahan		Ha	20	2500	50000
		Rampur		Ha	35	2500	87500
		Bahli		Ha	25	2500	62500
		Nankhan		Ha	30	2500	75000
		Total			110		275000
	Ani	Arsu		Ha	70	2500	175000
		Niher		Ha	80	2500	200000
		Total			150		375000
		Total			260		650000
Total Degraded Forest Land					780		2175000
b) Replenishment Afforestation	Rampur	Sarahan	Nil	Ha	0	28000	0
New		Rampur	Nil	Ha	0	28000	0
		Bahli	Nil	Ha	0	28000	0
		Nankhan	Nil	Ha	0	28000	0
		Total			0		0
	Ani	Arsu	Nil	Ha	0	28000	0
		Niher	Nil	Ha	0	28000	0
		Total			0		0
		Total			0		0
1st Year Maintenance	Rampur	Sarahan	Nil	Ha	0	2780	0
		Rampur	Nil	Ha	0	2780	0
		Bahli	Nil	Ha	0	2780	0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Nankhan	Nil	Ha	0	2780	0
		Total			0		0
	Ani	Arsu	Nil	Ha	0	2780	0
		Nither	Nil	Ha	0	2780	0
		Total			0		0
		Total			0		0
2nd Year Maintenance	Rampur	Sarahan		Ha	0	2300	0
		Rampur		Ha	25	2300	57500
		Bahli		Ha	35	2300	80500
		Nankhan		Ha	20	2300	46000
		Total			80		184000
	Ani	Arsu		Ha	35	2300	80500
		Nither		Ha	25	2300	57500
		Total			60		138000
		Total			140		322000
3rd Year Maintenance	Rampur	Sarahan		Ha	0	2100	0
		Rampur		Ha	25	2100	52500
		Bahli		Ha	35	2100	73500
		Nankhan		Ha	20	2100	42000
		Total			80		168000
	Ani	Arsu		Ha	45	2100	94500
		Nither		Ha	35	2100	73500
		Total			80		168000
		Total			160		336000
4th Year Maintenance	Rampur	Sarahan		Ha	25	1900	47500
		Rampur		Ha	30	1900	57000
		Bahli		Ha	30	1900	57000
		Nankhan		Ha	15	1900	28500
		Total			100		190000
	Ani	Arsu		Ha	30	1900	57000
		Nither		Ha	30	1900	57000
		Total			60		114000
		Total			160		304000
Total Replishment Afforestation					460		962000
(c) Assisted Natural Regeneration	Rampur	Sarahan	Nil	Ha	0	22500	0
		Rampur	Nil	Ha	0	22500	0
		Bahli	Nil	Ha	0	22500	0
		Nankhan	Nil	Ha	0	22500	0
		Total			0		0
	Ani	Arsu	Nil	Ha	0	22500	0
		Nither	Nil	Ha	0	22500	0
		Total			0		0
		Total			0		0
1st Year Maintenance	Rampur	Sarahan		Ha	0	1900	0
		Rampur		Ha	0	1900	0
		Bahli		Ha	0	1900	0
		Nankhan		Ha	20	1900	38000
		Total			20		38000
	Ani	Arsu		Ha	25	1900	47500
		Nither		Ha	20	1900	38000
		Total			45		85500
		Total			65		123500
2nd Year Maintenance	Rampur	Sarahan		Ha	0	1650	0
		Rampur		Ha	0	1650	0
		Bahli		Ha	20	1650	33000
		Nankhan		Ha	30	1650	49500
		Total			50		82500
	Ani	Arsu		Ha	40	1650	66000
		Nither		Ha	15	1650	24750
		Total			55		90750
		Total			105		173250
3rd Year Maintenance	Rampur	Sarahan		Ha	30	1450	43500
		Rampur		Ha	25	1450	36250

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Bahli		Ha	0	1450	0
		Nankhan		Ha	30	1450	43500
		Total			85		123250
	Ani	Arasu		Ha	50	1450	72500
		Nither		Ha	25	1450	36250
		Total			75		108750
	Total				160		232000
4th Year Maintenance	Rampur	Sarahan		Ha	20	1400	28000
		Rampur		Ha	0	1400	0
		Bahli		Ha	0	1400	0
		Nankhan		Ha	20	1400	28000
		Total			40		56000
	Ani	Arasu		Ha	30	1400	42000
		Nither		Ha	0	1400	0
		Total			30		42000
	Total				70		98000
Total Assisted Natural Regeneration					400		626750
d) Development of Medicinal Plant (New)	Rampur	Sarahan	Nil	Ha	0	29300	0
		Rampur	Nil	Ha	0	29300	0
		Bahli	Nil	Ha	0	29300	0
		Nankhan	Nil	Ha	0	29300	0
		Total			0		0
	Ani	Arasu	Nil	Ha	0	29300	0
		Nither	Nil	Ha	0	29300	0
		Total			0		0
	Total				0		0
1st Year Maintenance	Rampur	Sarahan		Ha	0	4700	0
		Rampur		Ha	0	4700	0
		Bahli		Ha	15	4700	70500
		Nankhan		Ha	0	4700	0
		Total			15		70500
	Ani	Arasu		Ha	15	4700	70500
		Nither		Ha	0	4700	0
		Total			15		70500
	Total				30		141000
2nd Year Maintenance	Rampur	Sarahan		Ha	15	3300	49500
		Rampur		Ha	10	3300	33000
		Bahli		Ha	10	3300	33000
		Nankhan		Ha	0	3300	0
		Total			35		115500
	Ani	Arasu		Ha	25	3300	82500
		Nither		Ha	25	3300	82500
		Total			50		165000
	Total				85		280500
3rd Year Maintenance	Rampur	Sarahan		Ha	15	2800	42000
		Rampur		Ha	10	2800	28000
		Bahli		Ha	5	2800	14000
		Nankhan		Ha	0	2800	0
		Total			30		84000
	Ani	Arasu		Ha	25	2800	70000
		Nither		Ha	0	2800	0
		Total			25		70000
	Total				55		154000
Total Development of Medicinal Plant					170		575500
3. Pasture Improvement							
a) Alpine Pastures (New)	Rampur	Sarahan		Ha	0	8800	0
		Rampur		Ha	0	8800	0
		Bahli		Ha	0	8800	0
		Nankhan		Ha	0	8800	0
		Total			0		0
	Ani	Arasu		Ha	0	8800	0
		Nither		Ha	0	8800	0
		Total			0		0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Total				0		0
b) Low Lying Pastures (New)	Rampur	Sarahan		Ha	0	27250	0
		Rampur		Ha	0	27250	0
		Bahli		Ha	10	27250	272500
		Nankhan		Ha	0	27250	0
		Total			10		272500
	Ani	Arasu		Ha	10	27250	272500
		Nither		Ha	15	27250	408750
		Total			25		681250
	Total				35		953750
1st Year Maintenance	Rampur	Sarahan		Ha	10	2850	28500
		Rampur		Ha	10	2850	28500
		Bahli		Ha	15	2850	42750
		Nankhan		Ha	0	2850	0
		Total			35		99750
	Ani	Arasu		Ha	20	2850	57000
		Nither		Ha	25	2850	71250
		Total			45		128250
	Total				80		228000
2nd Year Maintenance	Rampur	Sarahan		Ha	5	2300	11500
		Rampur		Ha	5	2300	11500
		Bahli		Ha	15	2300	34500
		Nankhan		Ha	10	2300	23000
		Total			35		80500
	Ani	Arasu		Ha	35	2300	80500
		Nither		Ha	25	2300	57500
		Total			60		138000
	Total				95		218500
3rd Year Maintenance	Rampur	Sarahan		Ha	0	2100	0
		Rampur		Ha	0	2100	0
		Bahli		Ha	0	2100	0
		Nankhan		Ha	0	2100	0
		Total			0		0
	Ani	Arasu		Ha	20	2100	42000
		Nither		Ha	10	2100	21000
		Total			30		63000
	Total				30		63000
Total Low Lying Pasture					240		1463250
4. Subsidiary Silvicultural Operation	Rampur	Sarahan		Ha	20	2500	50000
		Rampur		Ha	25	2500	62500
		Bahli		Ha	0	2500	0
		Nankhan		Ha	20	2500	50000
		Total			65		162500
	Ani	Arasu		Ha	30	2500	75000
		Nither		Ha	15	2500	37500
		Total			45		112500
	Total				110		275000
5. Soil And Moisture Conservation Works							
a) Stabilization of Active Land Slide	Rampur	Sarahan	Chandi-Brandu				100000
			Suru				50000
Total Rampur Division							150000
	Ani	Arasu	2/1 Barati C-II	Ha			204000
Total Ani Division							204000
Total Active Land Slide							354000
b) Treatment of Nallas	Rampur						0
Total Rampur Division							0
	Ani	Arasu	Ugar Nalla				300000
			Suma Nalla				200000
			Dogni / Nagadi Nalla				100000
			Basli / Shamani				300000
			Badari Nalla				600000
	Nither		Manjwa Nalla - 1				250000
			Manjwa Nalla - 2				325000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
Total Ani Division							2075000
Total Treatment of Nallas							2075000
c) Road Side Erosion Control	Rampur						0
	Ani						0
		Total					0
6. Avenue Planting & Land Escaping	Rampur						0
	Ani						0
		Total					0
7. Forest Infrastructure Development							0
a) Repair of Forest Paths	Rampur						0
	Ani						0
		Total					0
b) Repair / construction of operational buildings	Rampur						0
	Ani						0
		Total					0
c) Farm Ponds	Rampur						0
	Ani						0
		Total					0
d) Soil and Water Harvesting Structure	Rampur						0
	Ani						0
		Total					0
		Total Soil and Water Harvesting Structure					0
8. Rural Infrastructural Development							0
a) Village Ponds & Tanks	Rampur						0
	Ani						0
		Total					0
b) Repair of Springs, Bawari & other Water S	Rampur						0
	Ani						0
		Total					0
c) Strengthening of Village Road & Path	Rampur	Sarahan	Shrikhand to Serpara path				40000
			Hurkudhada to Dhara, Jagdhara				25000
			Sarpara to Gamu Ghati Temple				40000
			Hurkudhada to Dhauha Bhagawat				20000
			Maguni to Hurkudhada via Kinoo				20000
	Rampur		Gaura Mod - Kandi via Kalyanpur Dughi Rk				110000
			App Road to GHSS Shingla				40000
			Soom to SSS Deothi				40000
			Soom to Lalata				30000
			Juo to Bahidhar				30000
			Seri to Dammi				50000
	Bahli		FRH Surad to Dhar motor road				40000
	Nankhan		Shakta				60000
		Total					545000
	Ani	Arsu	Baneob to Rangal				40000
			Path in Chamboo vil				15000
			Arsu to Shoch/ Mathia				40000
			Damadi to Jojabawa				110000
	Nither		Moim to Nither				90000
			Chhachi to Ishwa				25000
		Total					220000
		Total Strengthening of Village Road & Path					865000
d) Construction of Foot Bridges	Rampur						0
	Ani						0
		Total					0
		Total Construction of Foot Bridges					865000
9. Treatment of Private Land	Rampur						0
	Ani						0
		Total					0
10. Fuel Saving Devices							0
a) Construction of crematoria	Rampur						0
	Ani						0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Total					0
b) Distribution of Pressure cookers/ Biogas C	Rampur						0
	Ani						0
		Total					0
11. Construction of Rain Water Harvesting	Rampur						0
	Ani						0
		Total					0
12. Wild Life Improvement							
A) Intensive Mangement of Wildlife							
<i>i) Protection of Forest and Wildlife</i>							
a) Repair of Existing Boundary Pillars	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					15000
	Ani	Arasu					0
		Nither					0
		Total					15000
		Total Repair of Existing B.P.					30000
b) Improvement of Wireless Communication System	Rampur	Sarahan					0
	Ani	Arasu					0
		Total					0
c) Equipment i.e. Fire Fighting	Rampur	Sarahan					0
	Ani	Arasu					0
		Total					0
d) Debris Disposal	Rampur	Sarahan					0
	Ani	Arasu					0
		Total					0
<i>ii) Veterinary Facilities / Vaccination of Domestic Cattle</i>	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					20000
	Ani	Arasu					0
		Nither					0
		Total					20000
		Total Veterinary Facilities					40000
<i>iii) Reward/Incentives to the informers</i>	Rampur						0
	Ani						0
		Total					0
<i>iv) Anti Poaching Activities</i>	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					20000
	Ani	Arasu					0
		Nither					0
		Total					20000
		Total Anti Poaching Activities					40000
<i>v) Habitat Improvement</i>	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					50000
	Ani	Arasu					0
		Nither					0
		Total					50000
		Total Habitat Imp.					100000
<i>vi) Nature Awareness Camp</i>	Rampur	Sarahan					0
		Rampur					0
		Bahli					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Nankhan					0
		Total					20000
	Ani	Arsu					0
		Nither					0
		Total					20000
		Total NAC					40000
VII) Wildlife Census Operations in Outside protected areas	Rampur	Sarahan					0
	Ani	Arsu					0
		Total					0
VIII) Sign and Slogan Boards	Rampur	Sarahan					0
	Ani	Arsu					0
		Total					0
B) Eco Development Activities							
i) Village Support Activities (Including Sanitation etc.)	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					100000
	Ani	Arsu					0
		Nither					0
		Total					100000
		Total VS Activities					200000
ii) Development of NTFP	Rampur	Sarahan					0
	Ani	Arsu					0
		Total					0
iii) Eco Tourism Activities	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					25000
	Ani	Arsu					0
		Nither					0
		Total					25000
		Total ET Activities					50000
IV) Income Generation Activities (Vermi Composting)	Rampur	Sarahan					0
		Rampur					0
		Bahli					0
		Nankhan					0
		Total					50000
	Ani	Arsu					0
		Nither					0
		Total					50000
		Total IG Activities					100000
13. Forest Protection							
a) Clearance of Fire Line	Rampur	Sarahan					0
	Ani	Arsu					0
		Total					0
b) Engagement of Fire Watchers & Fire Fighting Squads	Rampur	Sarahan		No	1		3500
		Rampur		No	2		7000
		Bahli		No	2		7000
		Nankhan		No	1		3500
		Fire fighting squads				L/S	75000
		Total			6		96000
	Ani	Arsu		No	8		28000
		Nither		No	4		14000
		Fire fighting squads				L/S	75000
		Total			12		117000
		Total Eng. Fire Watchers			18		213000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
c) Purchase of Fire Fighting Equipments	Rampur						0
	Ani						0
		Total					0
d) Construction of Watch Tower	Rampur						0
	Ani						0
		Total					0
e) Construction of Gang Huts	Rampur						0
	Ani						0
		Total					0
f) Improvement of Communication System	Rampur						0
	Ani						0
		Total					0
14. Training And Studies	Rampur					0	
	Ani						0
		Total					0
15. Awareness & Publicity	Rampur						150000
	Ani						150000
		Total					300000
16. Operational Supports							
a) Esst. Charges	Rampur						0
	Ani						2500000
		Total					2500000
b) Office Expenditure	Rampur						25000
	Ani						50000
		Total					75000
c) Travelling Expenditure	Rampur						10000
	Ani						30000
		Total					40000
d) Office Equipment	Rampur						0
	Ani						0
		Total					0
e) Operational Mobility	Rampur						0
	Ani						300000
		Total					300000
f) Amenities to Staff and Labour	Rampur						10000
	Ani						10000
		Total					20000
g) Motor Vehicle	Rampur						50000
	Ani						50000
		Total					100000
17. Agricultural Supports	Rampur					400000	
	Ani						600000
	Total						1000000
18. Horticultural Supports	Rampur						100000
	Ani						100000
	Total						200000
19. Animal Husbandary Support	Rampur						100000
	Ani						100000
	Total						200000
20. Contingency	Rampur						449400
	Ani						1042550
		Total					1491950
Grand Total							16411450

VI th YEAR COMPONENT WISE WORK SHEDULE							
Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
1. Establishment of CAT Plan Nursery	Rampur						0
	Ani						0
		Total					0
2. Forest Conservation & Improvement							0
a) Afforestation of Degraded Forest Lands							
3rd Year Maintenance	Rampur	Sarahan		Ha	0	2800	0
		Rampur		Ha	35	2800	98000
		Bahli		Ha	20	2800	56000
		Nankhari		Ha	25	2800	70000
		Total			80		224000
	Ani	Arasu		Ha	75	2800	210000
		Nither		Ha	75	2800	210000
		Total			150		420000
		Total			230		644000
4th Year Maintenance	Rampur	Sarahan		Ha	25	2500	62500
		Rampur		Ha	35	2500	87500
		Bahli		Ha	25	2500	62500
		Nankhari		Ha	25	2500	62500
		Total			110		275000
	Ani	Arasu		Ha	95	2500	237500
		Nither		Ha	85	2500	212500
		Total			180		450000
		Total			290		725000
5th Year Maintenance	Rampur	Sarahan		Ha	20	2200	44000
		Rampur		Ha	35	2200	77000
		Bahli		Ha	25	2200	55000
		Nankhari		Ha	30	2200	66000
		Total			110		242000
	Ani	Arasu		Ha	70	2200	154000
		Nither		Ha	80	2200	176000
		Total			150		330000
		Total			260		572000
Total Degraded Forest Land							780
b) Replishment Afforestation							1941000
3rd Year Maintenance	Rampur	Sarahan		Ha	0	2100	0
		Rampur		Ha	25	2100	52500
		Bahli		Ha	35	2100	73500
		Nankhari		Ha	20	2100	42000
		Total			80		168000
	Ani	Arasu		Ha	35	2100	73500
		Nither		Ha	25	2100	52500
		Total			60		126000
		Total			140		294000
4th Year Maintenance	Rampur	Sarahan		Ha	0	1900	0
		Rampur		Ha	25	1900	47500
		Bahli		Ha	35	1900	66500
		Nankhari		Ha	20	1900	38000
		Total			80		152000
	Ani	Arasu		Ha	45	1900	85500
		Nither		Ha	35	1900	66500
		Total			80		152000
		Total			160		304000
5th Year Maintenance	Rampur	Sarahan		Ha	25	1750	43750
		Rampur		Ha	30	1750	52500
		Bahli		Ha	30	1750	52500
		Nankhari		Ha	15	1750	26250
		Total			100		175000
	Ani	Arasu		Ha	30	1750	52500
		Nither		Ha	30	1750	52500
		Total			60		105000
		Total			160		280000
Total Replishment Afforestation							460
							878000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
c) Assisted Natural Regeneration							
2nd Year Maintenance	Rampur	Sarahan		Ha.	0	1650	0
		Rampur		Ha.	0	1650	0
		Bahli		Ha.	0	1650	0
		Nankhari		Ha.	20	1650	33000
		Total			20		33000
	Ani	Arsu		Ha.	25	1650	41250
		Nither		Ha.	20	1650	33000
		Total			45		74250
		Total			65		107250
3rd Year Maintenance	Rampur	Sarahan		Ha.	0	1450	0
		Rampur		Ha.	0	1450	0
		Bahli		Ha.	20	1450	29000
		Nankhari		Ha.	30	1450	43500
		Total			50		72500
	Ani	Arsu		Ha.	40	1450	58000
		Nither		Ha.	15	1450	21750
		Total			55		79750
		Total			105		152250
4th Year Maintenance	Rampur	Sarahan		Ha.	30	1400	42000
		Rampur		Ha.	25	1400	35000
		Bahli		Ha.	0	1400	0
		Nankhari		Ha.	30	1400	42000
		Total			85		119000
	Ani	Arsu		Ha.	50	1400	70000
		Nither		Ha.	25	1400	35000
		Total			75		105000
		Total			160		224000
5th Year Maintenance	Rampur	Sarahan		Ha.	20	1300	26000
		Rampur		Ha.	0	1300	0
		Bahli		Ha.	0	1300	0
		Nankhari		Ha.	20	1300	26000
		Total			40		52000
	Ani	Arsu		Ha.	30	1300	39000
		Nither		Ha.	0	1300	0
		Total			30		39000
		Total			70		91000
Total Assisted Natural Regeneration					400		574500
d) Development of Medicinal Plant							
2nd Year Maintenance	Rampur	Sarahan		Ha.	0	3300	0
		Rampur		Ha.	0	3300	0
		Bahli		Ha.	15	3300	49500
		Nankhari		Ha.	0	3300	0
		Total			15		49500
	Ani	Arsu		Ha.	15	3300	49500
		Nither		Ha.	0	3300	0
		Total			15		49500
		Total			30		99000
3rd Year Maintenance	Rampur	Sarahan		Ha.	15	2800	42000
		Rampur		Ha.	10	2800	28000
		Bahli		Ha.	10	2800	28000
		Nankhari		Ha.	0	2800	0
		Total			35		98000
	Ani	Arsu		Ha.	25	2800	70000
		Nither		Ha.	25	2800	70000
		Total			50		140000
		Total			85		238000
Total Development of Medicinal Plant					115		337000
3. Pasture Improvement							
a) Alpine Pastures	Rampur				0	8800	0
	Ani	Arsu		Ha.	0	8800	0
		Total			0		0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
b) Low Lying Pastures							
1st Year Maintenance	Rampur	Sarahan		Ha.	0	2850	0
		Rampur		Ha.	0	2850	0
		Bahli		Ha.	10	2850	28500
		Nankhari		Ha.	0	2850	0
		Total			10		28500
	Ani	Arsu		Ha.	10	2850	28500
		Nither		Ha.	15	2850	42750
		Total			25		71250
	Total				35		99750
2nd Year Maintenance	Rampur	Sarahan		Ha.	10	2300	23000
		Rampur		Ha.	10	2300	23000
		Bahli		Ha.	15	2300	34500
		Nankhari		Ha.	0	2300	0
		Total			35		80500
	Ani	Arsu		Ha.	20	2300	46000
		Nither		Ha.	25	2300	57500
		Total			45		103500
	Total				80		184000
3rd Year Maintenance	Rampur	Sarahan		Ha.	5	2100	10500
		Rampur		Ha.	5	2100	10500
		Bahli		Ha.	15	2100	31500
		Nankhari		Ha.	10	2100	21000
		Total			35		73500
	Ani	Arsu		Ha.	35	2100	73500
		Nither		Ha.	25	2100	52500
		Total			60		126000
	Total				95		199500
4th Year Maintenance	Rampur	Sarahan		Ha.	0	1950	0
		Rampur		Ha.	0	1950	0
		Bahli		Ha.	0	1950	0
		Nankhari		Ha.	0	1950	0
		Total			0		0
	Ani	Arsu		Ha.	20	1950	39000
		Nither		Ha.	10	1950	19500
		Total			30		58500
	Total				30		58500
Total Low Lying Pasture					240		541750
4. Subsidiary Silvicultural Operation	Rampur	Sarahan		Ha.	25	2500	62500
		Rampur		Ha.	25	2500	62500
		Bahli		Ha.	0	2500	0
		Nankhan		Ha.	20	2500	50000
		Total			70		175000
	Ani	Arsu		Ha.	30	2500	75000
		Nither		Ha.	15	2500	37500
		Total			45		112500
	Total				115		287500
5. Soil And Moisture Conservation Works							0
a) Stabilization of Active Land Slide	Rampur						0
	Ani						0
	Total						0
b) Treatment of Nallas	Rampur						0
	Ani						0
	Total						0
c) Road Side Erosion Control	Rampur						0
	Ani						0
	Total						0
6. Avenue Planting & Land Escaping	Rampur						0
	Ani						0
	Total						0
7. Forest Infrastructure Development							0
a) Repair of Forest Paths	Rampur						0
	Ani						0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Total					0
b) Repair / construction of operational buildings	Rampur						0
	Ani						0
		Total					0
c) Farm Ponds	Rampur						0
	Ani						0
		Total					0
d) Soil and Water Harvesting Structure	Rampur						0
	Ani						0
		Total					0
8. Rural Infrastructural Development		Total					0
a) Village Ponds & Tanks	Rampur						0
	Ani						0
		Total					0
b) Repair of Springs, Bawari & other Water Sources	Rampur						0
	Ani						0
		Total					0
c) Strengthening of Village Road & Path	Rampur						0
	Ani						0
		Total					0
d) Construction of Foot Bridges	Rampur						0
	Ani						0
		Total					0
9. Treatment of Private Land		Total					0
	Rampur						0
	Ani						0
		Total					0
10. Fuel Saving Devices		Total					0
a) Construction of crematoria	Rampur						0
	Ani						0
		Total					0
b) Distribution of Pressure cookers/ Biogas Churns	Rampur						0
	Ani						0
		Total					0
11. Construction of Rain Water Harvesting Structures		Total					0
	Rampur						0
	Ani						0
		Total					0
12. Wild Life Improvement		Total					0
A) Intensive Mangement of Wildlife							
i) Protection of Forest and Wildlife							
a) Repair of Existing Boundary Pillars	Rampur						0
	Ani						0
		Total					0
b) Improvement of Wireless Communication System	Rampur						0
	Ani						0
		Total					0
c) Equipment i.e. Fire Fighting	Rampur						0
	Ani						0
		Total					0
d) Debris Disposal	Rampur						0
	Ani						0
		Total					0
ii) Veterinary Facilities / Vaccination of Domestic Cattle		Total					0
	Rampur						0
	Ani						0
		Total					0
iii) Reward/Incentives to the informers		Total					0
	Rampur						0
	Ani						0
		Total					0
iv) Anti Poaching Activities		Total					0
	Rampur						0
	Ani						0
		Total					0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
V) Habitat Improvement	Rampur						0
	Ani						0
		Total					0
VI) Nature Awareness Camp	Rampur						0
	Ani						0
		Total					0
VII) Wildlife Census Operations in Outside protected areas	Rampur						0
	Ani						0
		Total					0
VIII) Sign and Slogan Boards	Rampur						0
	Ani						0
		Total					0
B) Eco Development Activities							
I) Village Support Activities (Including Sanitation etc.)	Rampur						0
	Ani						0
		Total					0
II) Development of NTFP	Rampur						0
	Ani						0
		Total					0
III) Eco Tourism Activities	Rampur						0
	Ani						0
		Total					0
IV) Income Generation Activities (Vermi Composting)	Rampur						0
	Ani						0
		Total					0
13. Forest Protection							
a) Clearance of Fire Line	Rampur						0
	Ani						0
		Total					0
b) Engagement of Fire Watchers & Fire Fighting Squads	Rampur						0
	Ani						0
		Total					0
c) Purchase of Fire Fighting Equipments	Rampur						0
	Ani						0
		Total					0
d) Construction of Watch Tower	Rampur						0
	Ani						0
		Total					0
e) Construction of Gang Huts	Rampur						0
	Ani						0
		Total					0
f) Improvement of Communication System	Rampur						0
	Ani						0
		Total					0
		Nankhari					0
		Total					0
14. Training And Studies	Rampur						0
	Ani						0
		Total					0
15. Awareness & Publicity	Rampur						100000
	Ani						100000
		Total					200000
16. Operational Supports							
a) Esstl. Charges	Rampur						0
	Ani						0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Total						0
b) Office Expenditure	Rampur						
	Ani						25000
	Total						50000
c) Travelling Expenditure	Rampur						75000
	Ani						10000
	Total						30000
d) Office Equipment	Rampur						40000
	Ani						0
	Total						0
e) Operational Mobility	Rampur						0
	Ani						0
	Total						0
f) Amenities to Staff and Labour	Rampur						0
	Ani						10000
	Total						10000
g) Motor Vehicle	Rampur						20000
	Ani						50000
	Total						50000
17. Agricultural Supports	Rampur						100000
	Ani						250000
	Total						450000
18. Horticultural Supports	Rampur						700000
	Ani						100000
	Total						100000
19. Animal Husbandary Support	Rampur						200000
	Ani						100000
	Total						100000
20. Contingency	Rampur						200000
	Ani						266250
	Total						343225
Grand Total							609475
							6704225

VII th YEAR COMPONENT WISE WORK SCHEDULE							
Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
1. Establishment of CAT Plan Nursery	Rampur						0
	Ani						0
		Total					0
2. Forest Conservation & Improvement							
a) Afforestation of Degraded Forest Lands							
4th Year Maintenance	Rampur	Sarahan		Ha	0	2500	0
		Rampur		Ha	35	2500	87500
		Bahli		Ha	20	2500	50000
		Nankhan		Ha	25	2500	62500
		Total			80		200000
	Ani	Arasu		Ha	75	2500	187500
		Nither		Ha	75	2500	187500
		Total			150		375000
		Total			230		575000
5th Year Maintenance	Rampur	Sarahan		Ha	25	2200	55000
		Rampur		Ha	95	2200	209000
		Bahli		Ha	25	2200	55000
		Nankhan		Ha	25	2200	55000
		Total			110		242000
	Ani	Arasu		Ha	95	2200	209000
		Nither		Ha	85	2200	187000
		Total			180		396000
		Total			290		638000
6th Year Maintenance	Rampur	Sarahan		Ha	20	1900	38000
		Rampur		Ha	35	1900	66500
		Bahli		Ha	25	1900	47500
		Nankhan		Ha	30	1900	57000
		Total			110		209000
	Ani	Arasu		Ha	70	1900	133000
		Nither		Ha	80	1900	152000
		Total			150		285000
		Total			260		494000
Total Degraded Forest Land					780		1707000
b) Replenishment Afforestation							
4th Year Maintenance	Rampur	Sarahan		Ha	0	1900	0
		Rampur		Ha	25	1900	47500
		Bahli		Ha	35	1900	66500
		Nankhan		Ha	20	1900	38000
		Total			80		152000
	Ani	Arasu		Ha	35	1900	66500
		Nither		Ha	25	1900	47500
		Total			60		114000
		Total			140		266000
5th Year Maintenance	Rampur	Sarahan		Ha	0	1750	0
		Rampur		Ha	25	1750	43750
		Bahli		Ha	35	1750	61250
		Nankhan		Ha	20	1750	35000
		Total			80		140000
	Ani	Arasu		Ha	45	1750	78750
		Nither		Ha	35	1750	61250
		Total			80		140000
		Total			160		280000
6th Year Maintenance	Rampur	Sarahan		Ha	25	1550	38750
		Rampur		Ha	30	1550	46500
		Bahli		Ha	30	1550	46500
		Nankhan		Ha	15	1550	23250
		Total			100		155000
	Ani	Arasu		Ha	30	1550	46500
		Nither		Ha	30	1550	46500
		Total			60		93000
		Total			160		248000
Total Replenishment Afforestation					460		794000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
c) Assisted Natural Regeneration							
3rd Year Maintenance							
	Rampur	Sarahan		Ha	0	1450	0
		Rampur		Ha	0	1450	0
		Bahli		Ha	0	1450	0
		Nankhari		Ha	20	1450	29000
		Total			20		29000
	Ani	Arsu		Ha	25	1450	36250
		Nither		Ha	20	1450	29000
		Total			45		65250
4th Year Maintenance							
	Rampur	Sarahan		Ha	0	1400	0
		Rampur		Ha	0	1400	0
		Bahli		Ha	20	1400	28000
		Nankhan		Ha	30	1400	42000
		Total			50		70000
	Ani	Arsu		Ha	40	1400	56000
		Nither		Ha	15	1400	21000
		Total			55		77000
5th Year Maintenance							
	Rampur	Sarahan		Ha	30	1300	39000
		Rampur		Ha	25	1300	32500
		Bahli		Ha	0	1300	0
		Nankhari		Ha	30	1300	39000
		Total			85		110500
	Ani	Arsu		Ha	50	1300	65000
		Nither		Ha	25	1300	32500
		Total			75		97500
Total Assisted Natural Regeneration							
					160		208000
d) Development of Medicinal Plant							
3rd Year Maintenance							
	Rampur	Sarahan		Ha	0	2800	0
		Rampur		Ha	0	2800	0
		Bahli		Ha	15	2800	42000
		Nankhari		Ha	0	2800	0
		Total			15		42000
	Ani	Arsu		Ha	15	2800	42000
		Nither		Ha	0	2800	0
		Total			15		42000
Total Development of Medicinal Plant							
					30		84000
3. Pasture Improvement							
a) Alpine Pastures							
	Rampur				0	8800	0
	Ani			Ha	0	8800	0
		Total			0		0
b) Low Lying Pastures							
2nd Year Maintenance							
	Rampur	Sarahan		Ha	0	2300	0
		Rampur		Ha	0	2300	0
		Bahli		Ha	10	2300	23000
		Nankhan		Ha	0	2300	0
		Total			10		23000
	Ani	Arsu		Ha	10	2300	23000
		Nither		Ha	15	2300	34500
		Total			25		57500
3rd Year Maintenance							
	Rampur	Sarahan		Ha	10	2100	21000
		Rampur		Ha	10	2100	21000
		Bahli		Ha	15	2100	31500
		Nankhan		Ha	0	2100	0
		Total			35		73500
	Ani	Arsu		Ha	20	2100	42000
		Nither		Ha	25	2100	52500
		Total			45		94500
Total							
					80		168000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
4th Year Maintenance	Rampur	Sarahan		Ha	5	1950	9750
		Rampur		Ha	5	1950	9750
		Bahli		Ha	15	1950	29250
		Nankhan		Ha	10	1950	19500
		Total			35		68250
	Ani	Arsu		Ha	35	1950	68250
		Nither		Ha	25	1950	48750
	Total			60		117000	
	Total			95		185250	
5th Year Maintenance	Rampur	Sarahan		Ha	0	1750	0
		Rampur		Ha	0	1750	0
		Bahli		Ha	0	1750	0
		Nankhan		Ha	0	1750	0
		Total			0		0
	Ani	Arsu		Ha	20	1750	35000
		Nither		Ha	10	1750	17500
	Total			30		52500	
	Total			30		52500	
Total Low Lying Pasture					240		486250
4. Subsidiary Silvicultural Operation	Rampur	Sarahan		Ha	0	2500	0
		Rampur		Ha	15	2500	37500
		Bahli		Ha	0	2500	0
		Nankhan		Ha	10	2500	25000
		Total			25		62500
	Ani	Arsu		Ha	31	2500	77500
		Nither		Ha	9	2500	22500
		Total			40		100000
	Total				65		162500
5. Soil And Moisture Conservation Works							
a) Stabilization of Active Land Slide	Rampur						0
	Ani						0
	Total						0
b) Treatment of Nallas	Rampur						0
	Ani						0
	Total						0
c) Road Side Erosion Control	Rampur						0
	Ani						0
	Total						0
6. Avenue Planting & Land Escaping	Rampur						0
	Ani						0
	Total						0
7. Forest Infrastructure Development							
a) Repair of Forest Paths	Rampur						0
	Ani						0
	Total						0
b) Repair / construction of operational buildings	Rampur						0
	Ani						0
	Total						0
c) Farm Ponds	Rampur						0
	Ani						0
	Total						0
d) Soil and Water Harvesting Structure	Rampur						0
	Ani						0
	Total						0
8. Rural Infrastructural Development							
a) Village Ponds & Tanks	Rampur						0
	Ani						0
	Total						0
b) Repair of Springs, Bawari & other Water Sources	Rampur						0
	Ani						0
	Total						0
c) Strengthening of Village Road & Path	Rampur						0
	Ani						0
	Total						0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
							0
d) Construction of Foot Bridges	Rampur						0
	Ani						0
							0
9. Treatment of Private Land	Rampur						0
	Ani						0
							0
10. Fuel Saving Devices							0
a) Construction of crematoria	Rampur						0
	Ani						0
							0
b) Distribution of Pressure cookers/ Biogas Chulha	Rampur						0
	Ani						0
							0
11. Construction of Rain Water Harvesting Structures	Rampur						0
	Ani						0
							0
12. Wild Life Improvement							0
A) Intensive Mangement of Wildlife							
<i>I) Protection of Forest and Wildlife</i>							
a) Repair of Existing Boundary Pillars	Rampur						0
	Ani						0
							0
b) Improvement of Wireless Communication System	Rampur						0
	Ani						0
							0
c) Equipment i.e. Fire Fighting	Rampur						0
	Ani						0
							0
d) Debris Disposal	Rampur						0
	Ani						0
							0
<i>II) Veterinary Facilities / Vaccination of Domestic Cattle</i>	Rampur						0
	Ani						0
							0
<i>III) Reward/Incentives to the informers</i>	Rampur						0
	Ani						0
							0
<i>IV) Anti Poaching Activities</i>	Rampur						0
	Ani						0
							0
<i>V) Habitat Improvement</i>	Rampur						0
	Ani						0
							0
<i>VI) Nature Awareness Camp</i>	Rampur						0
	Ani						0
							0
<i>VII) Wildlife Census Operations in Outside protected areas</i>	Rampur						0
	Ani						0
							0
<i>VIII) Sign and Slogan Boards</i>	Rampur						0
	Ani						0
							0
B) Eco Development Activities							0
<i>i) Village Support Activities (Including Sanitation etc.)</i>	Rampur						0
	Ani						0
							0
<i>ii) Development of NTFP</i>	Rampur						0
	Ani						0
							0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Total						0
<i>III) Eco Tourism Activities</i>	Rampur						0
	Ani						0
	Total						0
<i>IV) Income Generation Activities (Vermi Composting)</i>	Rampur						0
	Ani						0
	Total						0
13. Forest Protection							
a) Clearance of Fire Line	Rampur						0
	Ani						0
	Total						0
b) Engagement of Fire Watchers & Fire Fighting Squads	Rampur						0
	Ani						0
	Total						0
c) Purchase of Fire Fighting Equipments	Rampur						0
	Ani						0
	Total						0
d) Construction of Watch Tower	Rampur						0
	Ani						0
	Total						0
e) Construction of Gang Huts	Rampur						0
	Ani						0
	Total						0
f) Improvement of Communication System	Rampur						0
	Ani						0
	Total						0
14. Training And Studies	Rampur						0
	Ani						0
	Total						0
15. Awareness & Publicity	Rampur						0
	Ani						0
	Total						0
16. Operational Supports							
a) Essst. Charges	Rampur						0
	Ani						0
	Total						0
b) Office Expenditure	Rampur						25000
	Ani						50000
	Total						75000
c) Travelling Expenditure	Rampur						10000
	Ani						30000
	Total						40000
d) Office Equipment	Rampur						0
	Ani						0
	Total						0
e) Operational Mobility	Rampur						0
	Ani						0
	Total						0
f) Amenities to Staff and Labour	Rampur						10000
	Ani						10000
	Total						20000
g) Motor Vehicle	Rampur						50000
	Ani						50000
	Total						100000
17. Agricultural Supports	Rampur						200000
	Ani						300000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Total						600000
18. Horticultural Supports	Rampur						100000
	Ari						100000
	Total						200000
19. Animal Husbandary Support	Rampur						100000
	Ari						100000
	Total						200000
20. Contingency	Rampur						207175
	Ari						274625
	Total						481800
Grand Total							5299800

VIII th YEAR COMPONENT WISE WORK SCHEDULE							
Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
1. Establishment of CAT Plan Nursery	Rampur						0
	Ani						0
	Total						0
2. Forest Conservation & Improvement							
a) Afforestation of Degraded Forest Lands							
5th Year Maintenance	Rampur	Sarahan		Ha	0	2200	0
		Rampur		Ha	35	2200	77000
		Bahs		Ha	20	2200	44000
		Nankhan		Ha	25	2200	55000
		Total			80		176000
	Ani	Arsu		Ha	75	2200	165000
		Nither		Ha	75	2200	165000
		Total			150		330000
	Total				230		606000
6th Year Maintenance	Rampur	Sarahan		Ha	25	1900	47500
		Rampur		Ha	35	1900	66500
		Bahs		Ha	25	1900	47500
		Nankhan		Ha	25	1900	47500
		Total			110		209000
	Ani	Arsu		Ha	95	1900	180500
		Nither		Ha	85	1900	161500
		Total			180		342000
	Total				290		651000
7th Year Maintenance	Rampur	Sarahan		Ha	20	1900	38000
		Rampur		Ha	35	1900	66500
		Bahs		Ha	25	1900	47500
		Nankhan		Ha	30	1900	57000
		Total			110		209000
	Ani	Arsu		Ha	70	1900	133000
		Nither		Ha	80	1900	152000
		Total			150		285000
	Total				260		494000
Total Degraded Forest Land					780		1551000
b) Replenishment Afforestation							
5th Year Maintenance	Rampur	Sarahan		Ha	0	1750	0
		Rampur		Ha	25	1750	43750
		Bahli		Ha	35	1750	61250
		Nankhan		Ha	20	1750	35000
		Total			80		140000
	Ani	Arsu		Ha	35	1750	61250
		Nither		Ha	25	1750	43750
		Total			60		105000
	Total				140		245000
6th Year Maintenance	Rampur	Sarahan		Ha	0	1550	0
		Rampur		Ha	25	1550	38750
		Bahli		Ha	35	1550	54250
		Nankhan		Ha	20	1550	31000
		Total			80		124000
	Ani	Arsu		Ha	45	1550	69750
		Nither		Ha	35	1550	54250
		Total			80		124000
	Total				160		248000
7th Year Maintenance	Rampur	Sarahan		Ha	25	1550	38750
		Rampur		Ha	30	1550	46500
		Bahli		Ha	30	1550	46500
		Nankhan		Ha	15	1550	23250
		Total			100		155000
	Ani	Arsu		Ha	30	1550	46500
		Nither		Ha	30	1550	46500
		Total			60		93000
	Total				160		248000
Total Replenishment Afforestation					460		741000

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
c) Assisted Natural Regeneration							
4th Year Maintenance	Rampur	Sarahan		Ha.	0	1400	0
		Rampur		Ha.	0	1400	0
		Bahli		Ha.	0	1400	0
		Nankhari		Ha.	20	1400	28000
		Total			20		28000
	Ani	Arsu		Ha.	25	1400	35000
		Nither		Ha.	20	1400	28000
		Total			45		63000
	Total				65		91000
5th Year Maintenance	Rampur	Sarahan		Ha.	0	1300	0
		Rampur		Ha.	0	1300	0
		Bahli		Ha.	20	1300	26000
		Nankhari		Ha.	30	1300	39000
		Total			50		65000
	Ani	Arsu		Ha.	40	1300	52000
		Nither		Ha.	15	1300	19500
		Total			55		71500
	Total				105		136500
Total Assisted Natural Regeneration					170		227500
d) Development of Medicinal Plant	Rampur						0
	Ani						0
	Total						0
3. Pasture Improvement							
a) Alpine Pastures	Rampur						0
	Ani						0
	Total						0
b) Low Lying Pastures							
3rd Year Maintenance	Rampur	Sarahan		Ha.	0	2100	0
		Rampur		Ha.	0	2100	0
		Bahli		Ha.	10	2100	21000
		Nankhari		Ha.	0	2100	0
		Total			10		21000
	Ani	Arsu		Ha.	10	2100	21000
		Nither		Ha.	15	2100	31500
		Total			25		52500
	Total				35		73500
4th Year Maintenance	Rampur	Sarahan		Ha.	10	1950	19500
		Rampur		Ha.	10	1950	19500
		Bahli		Ha.	15	1950	29250
		Nankhari		Ha.	0	1950	0
		Total			35		68250
	Ani	Arsu		Ha.	20	1950	39000
		Nither		Ha.	25	1950	48750
		Total			45		87750
	Total				80		156000
5th Year Maintenance	Rampur	Sarahan		Ha.	5	1750	8750
		Rampur		Ha.	5	1750	8750
		Bahli		Ha.	15	1750	26250
		Nankhari		Ha.	10	1750	17500
		Total			35		61250
	Ani	Arsu		Ha.	35	1750	61250
		Nither		Ha.	25	1750	43750
		Total			60		105000
	Total				95		166250
Total Low Lying Pasture					210		395750
4. Subsidiary Silvicultural Operation							
	Rampur	Sarahan		Ha.	0	2500	0
		Rampur		Ha.	0	2500	0
		Bahli		Ha.	0	2500	0
		Nankhari		Ha.	0	2500	0
		Total			0		0
	Ani	Arsu		Ha.	0	2500	0
		Nither		Ha.	0	2500	0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Total			0		0
		Total			0		0
5. Soil And Moisture Conservation Works							
a) Stabilization of Active Land Slide	Rampur						0
	Ani						0
	Total						0
b) Treatment of Nallas	Rampur						0
	Ani						0
	Total						0
c) Road Side Erosion Control	Rampur						0
	Ani						0
	Total						0
6. Avenue Planting & Land Escaping	Rampur						0
	Ani						0
	Total						0
7. Forest Infrastructure Development							
a) Repair of Forest Paths	Rampur						0
	Ani						0
	Total						0
b) Repair / construction of operational buildings	Rampur						0
	Ani						0
	Total						0
c) Farm Ponds	Rampur						0
	Ani						0
	Total						0
d) Soil and Water Harvesting Structure	Rampur						0
	Ani						0
	Total						0
8. Rural Infrastructural Development							
a) Village Ponds & Tanks	Rampur						0
	Ani						0
	Total						0
b) Repair of Springs, Bawari & other Water S	Rampur						0
	Ani						0
	Total						0
c) Strengthening of Village Road & Path	Rampur						0
	Ani						0
	Total						0
d) Construction of Foot Bridges	Rampur						0
	Ani						0
	Total						0
9. Treatment of Private Land	Rampur						0
	Ani						0
	Total						0
10. Fuel Saving Devices							
a) Construction of crematoria	Rampur						0
	Ani						0
	Total						0
b) Distribution of Pressure cookers/ Biogas C	Rampur						0
	Ani						0
	Total						0
11. Construction of Rain Water Harvesting	Rampur						0
	Ani						0
	Total						0
12. Wild Life Improvement							
A) Intensive Mangement of Wildlife							
<i>i) Protection of Forest and Wildlife</i>							
a) Repair of Existing Boundary Pillars	Rampur						0
	Ani						0
	Total						0
b) Improvement of Wireless Communication System	Rampur						0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Ani						0
	Total						0
c) Equipment i.e. Fire Fighting	Rampur						0
	Ani						0
	Total						0
d) Debris Disposal	Rampur						0
	Ani						0
	Total						0
ii) Veterinary Facilities / Vaccination of Domestic Cattle	Rampur						0
	Ani						0
	Total						0
iii) Reward/incentives to the informers	Rampur						0
	Ani						0
	Total						0
iv) Anti Poaching Activities	Rampur						0
	Ani						0
	Total						0
v) Habitat Improvement	Rampur						0
	Ani						0
	Total						0
vi) Nature Awareness Camp	Rampur						0
	Ani						0
	Total						0
vii) Wildlife Census Operations in Outside protected areas	Rampur						0
	Ani						0
	Total						0
viii) Sign and Slogan Boards	Rampur						0
	Ani						0
	Total						0
B) Eco Development Activities							
i) Village Support Activities (Including Sanitation etc.)	Rampur						0
	Ani						0
	Total						0
ii) Development of NTFP	Rampur						0
	Ani						0
	Total						0
iii) Eco Tourism Activities	Rampur						0
	Ani						0
	Total						0
iv) Income Generation Activities (Vermi. Composting)	Rampur						0
	Ani						0
	Total						0
13. Forest Protection							0
a) Clearance of Fire Line	Rampur						0
	Ani						0
	Total						0
b) Engagement of Fire Watchers & Fire Fighting Squads	Rampur						0
	Ani						0
	Total						0
c) Purchase of Fire Fighting Equipments	Rampur						0
	Ani						0
	Total						0
d) Construction of Watch Tower	Rampur						0
	Ani						0
	Total						0
e) Construction of Gang Huts.	Rampur						0
	Ani						0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Total						0
f) Improvement of Communication System	Rampur						0
	Ani						0
	Total						0
14. Training And Studies	Rampur						0
	Ani						0
	Total						0
15. Awareness & Publicity	Rampur						0
	Ani						0
	Total						0
16. Operational Supports							
a) Esstl. Charges	Rampur						0
	Ani						0
	Total						0
b) Office Expenditure	Rampur						25000
	Ani						50000
	Total						75000
c) Travelling Expenditure	Rampur						10000
	Ani						30000
	Total						40000
d) Office Equipment	Rampur						0
	Ani						0
	Total						0
e) Operational Mobility	Rampur						0
	Ani						0
	Total						0
f) Amenities to Staff and Labour	Rampur						10000
	Ani						10000
	Total						20000
g) Motor Vehicle	Rampur						50000
	Ani						50000
	Total						100000
17. Agricultural Supports	Rampur						0
	Ani						0
	Total						0
18. Horticultural Supports	Rampur						0
	Ani						0
	Total						0
19. Animal Husbandary Support	Rampur						100000
	Ani						100000
	Total						200000
20. Contingency	Rampur						145150
	Ani						188875
	Total						334025
Grand Total							3685275

IX th YEAR COMPONENT WISE WORK SHEDULE							
Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
1. Establishment of CAT Plan Nursery	Rampur						0
	Ani						0
		Total					0
2. Forest Conservation & Improvement							
a) Afforestation of Degraded Forest Lands							
6th Year Maintenance	Rampur	Sarahan		Ha.	0	1900	0
		Rampur		Ha.	35	1900	66500
		Bahli		Ha.	20	1900	38000
		Nankhari		Ha.	25	1900	47500
		Total			80		152000
	Ani	Arsu		Ha.	75	1900	142500
		Nither		Ha.	75	1900	142500
		Total			150		285000
		Total			230		437000
7th Year Maintenance	Rampur	Sarahan		Ha.	25	1900	47500
		Rampur		Ha.	35	1900	66500
		Bahli		Ha.	25	1900	47500
		Nankhari		Ha.	25	1900	47500
		Total			110		209000
	Ani	Arsu		Ha.	95	1900	180500
		Nither		Ha.	85	1900	161500
		Total			180		342000
		Total			290		551000
Total Degraded Forest Land					520		988000
b) Replishment Afforestation							
6th Year Maintenance	Rampur	Sarahan		Ha.	0	1550	0
		Rampur		Ha.	25	1550	38750
		Bahli		Ha.	35	1550	54250
		Nankhari		Ha.	20	1550	31000
		Total			80		124000
	Ani	Arsu		Ha.	35	1550	54250
		Nither		Ha.	25	1550	38750
		Total			60		93000
		Total			140		217000
7th Year Maintenance	Rampur	Sarahan		Ha.	0	1550	0
		Rampur		Ha.	25	1550	38750
		Bahli		Ha.	35	1550	54250
		Nankhari		Ha.	20	1550	31000
		Total			80		124000
	Ani	Arsu		Ha.	45	1550	69750
		Nither		Ha.	35	1550	54250
		Total			80		124000
		Total			160		248000
Total Replishment Afforestation					300		465000
c) Assisted Natural Regeneration							
		Total			0		0
5th Year Maintenance	Rampur	Sarahan		Ha.	0	1300	0
		Rampur		Ha.	0	1300	0
		Bahli		Ha.	0	1300	0
		Nankhari		Ha.	20	1300	26000
		Total			20		26000
	Ani	Arsu		Ha.	25	1300	32500
		Nither		Ha.	20	1300	26000
		Total			45		58500
		Total			65		84500
Total Assisted Natural Regeneration					65		84500
d) Development of Medicinal Plant	Rampur						0
	Ani						0
		Total					0
3. Pasture Improvement							
a) Alpine Pastures	Rampur						0
	Ani						0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
		Total					0
b) Low Lying Pastures							
4th Year Maintenance	Rampur	Sarahan		Ha.	0	1950	0
		Rampur		Ha.	0	1950	0
		Bahl		Ha.	10	1950	19500
		Nankhari		Ha.	0	1950	0
		Total			10		19500
	Ani	Arzu		Ha.	10	1950	19500
		Nither		Ha.	15	1950	29250
		Total			25		48750
5th Year Maintenance	Rampur	Sarahan		Ha.	10	1750	17500
		Rampur		Ha.	10	1750	17500
		Bahl		Ha.	15	1750	26250
		Nankhari		Ha.	0	1750	0
		Total			35		61250
	Ani	Arzu		Ha.	20	1750	35000
		Nither		Ha.	25	1750	43750
		Total			45		78750
Total Low Lying Pasture		Total			80		140000
4. Subsidiary Silvicultural Operation	Rampur				115		208250
	Ani						0
		Total					0
5. Soil And Moisture Conservation Works							0
a) Stabilization of Active Land Side	Rampur						0
	Ani						0
		Total					0
b) Treatment of Nallas	Rampur						0
	Ani						0
		Total					0
c) Road Side Erosion Control	Rampur						0
	Ani						0
		Total					0
6. Avenue Planting & Land Escaping	Rampur						0
	Ani						0
		Total					0
7. Forest Infrastructure Development							0
a) Repair of Forest Paths	Rampur						0
	Ani						0
		Total					0
b) Repair / construction of operational buildings	Rampur						0
	Ani						0
		Total					0
c) Farm Ponds	Rampur						0
	Ani						0
		Total					0
d) Soil and Water Harvesting Structure	Rampur						0
	Ani						0
		Total					0
8. Rural Infrastructural Development							0
a) Village Ponds & Tanks	Rampur						0
	Ani						0
		Total					0
b) Repair of Springs, Bawari & other Water Sc	Rampur						0
	Ani						0
		Total					0
c) Strengthening of Village Road & Path	Rampur						0
	Ani						0
		Total					0
d) Construction of Foot Bridges	Rampur						0
	Ani						0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
							0
9. Treatment of Private Land							0
	Rampur						0
	Ani						0
							0
							0
10. Fuel Saving Devices							0
a) Construction of cremators	Rampur						0
	Ani						0
							0
							0
							0
b) Distribution of Pressure cookers/ Biogas Ch	Rampur						0
	Ani						0
							0
							0
							0
11. Construction of Rain Water Harvesting	Rampur						0
	Ani						0
							0
							0
12. Wild Life Improvement							0
A) Intensive Mangement of Wildlife							0
<i>I) Protection of Forest and Wildlife</i>							0
a) Repair of Existing Boundary Pillars	Rampur						0
	Ani						0
							0
							0
b) Improvement of Wireless Communication System	Rampur						0
	Ani						0
							0
							0
c) Equipment i.e. Fire Fighting	Rampur						0
	Ani						0
							0
							0
d) Debris Disposal	Rampur						0
	Ani						0
							0
							0
<i>II) Veterinary Facilities / Vaccination of Domestic Cattle</i>	Rampur						0
	Ani						0
							0
							0
<i>III) Reward/Incentives to the Informers</i>	Rampur						0
	Ani						0
							0
							0
<i>IV) Anti Poaching Activities</i>	Rampur						0
	Ani						0
							0
							0
<i>V) Habitat Improvement</i>	Rampur						0
	Ani						0
							0
							0
<i>VI) Nature Awareness Camp</i>	Rampur						0
	Ani						0
							0
							0
<i>VII) Wildlife Census Operations in Outside protected areas</i>	Rampur						0
	Ani						0
							0
							0
<i>VIII) Sign and Slogan Boards</i>	Rampur						0
	Ani						0
							0
							0
B) Eco Development Activities							0
<i>I) Village Support Activibes (Including Sanitation etc.)</i>	Rampur						0
	Ani						0
							0
							0
<i>II) Development of NTFP</i>	Rampur						0
	Ani						0
							0
							0
<i>III) Eco Tourism Activibes</i>	Rampur						0
	Ani						0
							0
							0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Total						0
IV) Income Generation Activities (Vermi Composting)	Rampur						0
	Ani						0
	Total						0
13. Forest Protection							
a) Clearance of Fire Line	Rampur						0
	Ani						0
	Total						0
b) Engagement of Fire Watchers & Fire Fighting Squads	Rampur						0
	Ani						0
	Total						0
c) Purchase of Fire Fighting Equipments	Rampur						0
	Ani						0
	Total						0
d) Construction of Watch Tower	Rampur						0
	Ani						0
	Total						0
e) Construction of Gang Huts	Rampur						0
	Ani						0
	Total						0
f) Improvement of Communication System	Rampur						0
	Ani						0
	Total						0
14. Training And Studies	Rampur						0
	Ani						0
	Total						0
15. Awareness & Publicity	Rampur						0
	Ani						0
	Total						0
16. Operational Supports							
a) Esstf. Charges	Rampur						0
	Ani						0
	Total						0
b) Office Expenditure	Rampur						25000
	Ani						50000
	Total						75000
c) Travelling Expenditure	Rampur						10000
	Ani						30000
	Total						40000
d) Office Equipment	Rampur						0
	Ani						0
	Total						0
e) Operational Mobility	Rampur						0
	Ani						0
	Total						0
f) Amenities to Staff and Labour	Rampur						10000
	Ani						10000
	Total						20000
g) Motor Vehicle	Rampur						50000
	Ani						50000
	Total						100000
17. Agricultural Supports	Rampur						0
	Ani						0
	Total						0
18. Horticultural Supports	Rampur						0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Api						0
	Total						0
19. Animal Husbandary Support	Rampur						50000
	Api						50000
	Total						100000
20. Contigency	Rampur						86075
	Api						122000
	Total						208075
Grand Total							2288825

X th YEAR COMPONENT WISE WORK SCHEDULE								
Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount	
1. Establishment of CAT Plan Nursery	Rampur							0
	Ani							0
		Total						0
2. Forest Conservation & Improvement								
a) Afforestation of Degraded Forest Lands								
7th Year Maintenance	Rampur	Sarahan		Ha.	0	1900		0
		Rampur		Ha.	35	1900		66500
		Bahli		Ha.	20	1900		38000
		Nankhan		Ha.	25	1900		47500
		Total			80			152000
	Ani	Arso		Ha.	75	1900		142500
		Nither		Ha.	75	1900		142500
		Total			150			285000
Total Degraded Forest Land							230	437000
b) Replishment Afforestation								
7th Year Maintenance	Rampur	Sarahan		Ha.	0	1550		0
		Rampur		Ha.	25	1550		38750
		Bahli		Ha.	35	1550		54250
		Nankhan		Ha.	20	1550		31000
		Total			80			124000
	Ani	Arso		Ha.	35	1550		54250
		Nither		Ha.	25	1550		38750
		Total			60			93000
Total Replishment Afforestation							140	217000
c) Assisted Natural Regeneration	Rampur							0
	Ani							0
		Total						0
d) Development of Medicinal Plant	Rampur							0
	Ani							0
		Total						0
3. Pasture Improvement								
a) Alpine Pastures	Rampur							0
	Ani							0
		Total						0
b) Low Lying Pastures								
5th Year Maintenance	Rampur	Sarahan		Ha.	0	1750		0
		Rampur		Ha.	0	1750		0
		Bahli		Ha.	10	1750		17500
		Nankhan		Ha.	0	1750		0
		Total			10			17500
	Ani	Arso		Ha.	10	1750		17500
		Nither		Ha.	15	1750		26250
		Total			25			43750
Total Low Lying Pasture							35	61250
4. Subsidiary Silvicultural Operation	Rampur							0
	Ani							0
		Total						0
5. Soil And Moisture Conservation Works								
a) Stabilization of Active Land Slide	Rampur							0
	Ani							0
		Total						0
b) Treatment of Nallas	Rampur							0
	Ani							0
		Total						0
c) Road Side Erosion Control	Rampur							0
	Ani							0
		Total						0
6. Avenue Planting & Land Escaping	Rampur							0
	Ani							0
		Total						0
7. Forest Infrastructure Development								
a) Repair of Forest Paths	Rampur							0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Ani						0
	Total						0
b) Repair / construction of operational buildings	Rampur						0
	Ani						0
	Total						0
c) Farm Ponds	Rampur						0
	Ani						0
	Total						0
d) Soil and Water Harvesting Structure	Rampur						0
	Ani						0
	Total						0
8. Rural Infrastructural Development							0
a) Village Ponds & Tanks	Rampur						0
	Ani						0
	Total						0
b) Repair of Springs, Bawari & other Water	Rampur						0
	Ani						0
	Total						0
c) Strengthening of Village Road & Path	Rampur						0
	Ani						0
	Total						0
d) Construction of Foot Bridges	Rampur						0
	Ani						0
	Total						0
9. Treatment of Private Land	Rampur						0
	Ani						0
	Total						0
10. Fuel Saving Devices							0
a) Construction of crematoria	Rampur						0
	Ani						0
	Total						0
b) Distribution of Pressure cookers/ Biogas	Rampur						0
	Ani						0
	Total						0
11. Construction of Rain Water Harvestin	Rampur						0
	Ani						0
	Total						0
12. Wild Life Improvement							0
A) Intensive Mangement of Wildlife							0
<i>I) Protection of Forest and Wildlife</i>							0
a) Repair of Existing Boundary Pillars	Rampur						0
	Ani						0
	Total						0
b) Improvement of Wireless Communication System	Rampur						0
	Ani						0
	Total						0
c) Equipment i.e. Fire Fighting	Rampur						0
	Ani						0
	Total						0
d) Debris Disposal	Rampur						0
	Ani						0
	Total						0
<i>II) Veterinary Facilities / Vaccination of Domestic Cattle</i>	Rampur						0
	Ani						0
	Total						0
<i>III) Reward/Incentives to the informers</i>	Rampur						0
	Ani						0
	Total						0
<i>IV) Anti Poaching Activities</i>	Rampur						0
	Ani						0

Component	Division	Range	Name of Area	Unit	Quantity	Rate	Amount
	Total						0
V) Habitat Improvement	Rampur						0
	Ani						0
	Total						0
VI) Nature Awareness Camp	Rampur						0
	Ani						0
	Total						0
VII) Wildlife Census Operations in Outside protected areas	Rampur						0
	Ani						0
	Total						0
VIII) Sign and Slogan Boards	Rampur						0
	Ani						0
	Total						0
B) Eco Development Activities							
I) Village Support Activities (including Sanitation etc.)	Rampur						0
	Ani						0
	Total						0
II) Development of NTFP	Rampur						0
	Ani						0
	Total						0
III) Eco Tourism Activities	Rampur						0
	Ani						0
	Total						0
IV) Income Generation Activities (Vermi Composting)	Rampur						0
	Ani						0
	Total						0
13. Forest Protection							
a) Clearance of Fire Line	Rampur						0
	Ani						0
	Total						0
b) Engagement of Fire Watchers & Fire Fighting Squads	Rampur						0
	Ani						0
	Total						0
c) Purchase of Fire Fighting Equipments	Rampur						0
	Ani						0
	Total						0
d) Construction of Watch Tower	Rampur						0
	Ani						0
	Total						0
e) Construction of Gang Huts	Rampur						0
	Ani						0
	Total						0
f) Improvement of Communication System	Rampur						0
	Ani						0
	Total						0
14. Training And Studies	Rampur						0
	Ani						0
	Total						0
15. Awareness & Publicity	Rampur						0
	Ani						0
	Total						0
16. Operational Supports							
a) Esstt. Charges	Rampur						0
	Ani						0

Annexure - I				
PER HA. COST MODEL FOR AFFORESTATION OF DEGRADED FOREST LANDS				
Sr. No.	Particulars of works	Quantity	Rate (Rs.)	Amount
1	Survey and preparation of plantation including making sections, path and preparation of map	1 hac	40.95 / hac	40.95
2	Construction of R. R. stone masonry barbed wire fence pillars 0.60x0.60 bottom & 0.45x0.45 top and 1.20 mtr. High w/c collection & carriage of stone upto 200 mtr	80 Nos	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 Gradonial trenches above pits size 1x0.30x0.30	1100 Nos	5.40 / Rm	5940
7	Layout of pits over	1 hac.	68.15 / hac	68.15
8	Digging of pits 45x45x45 cm	500	381.80 / %	1909.00
9	Digging of pits 30x30x30 cm	600	190.95 / %	1145.70
10	Filling of pits 45x45x45 cms.	500	109.40/ %	547.00
11	Filling of pits 30x30x30cms.	600	76.35 / %	458.10
12	Carriage of naked root plants over distance 2kms.	500	14.10 / % / km	141.00
13	Carriage of plants in P/bags over distance 2kms.	600	87.25 / % / km	1047.00
14	Planting of B.L Plants	500	73.60 / %	368.00
15	Planting of plants raised in P/bags.	600	87.30 / %	523.80
	Total			20669.45
16	Add increase	16.67%		3445.60
17	Add cost of B/wire including cost of U-nails	1 Qtlie	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			12845.60
	Grand Total			33515.05
	Or Say			33500.00

PER HA. COST MODEL FOR MAINTENANCE OF DEGRADED LAND

1st Year Maintenance				
No.	Particulars of works	Quantity	Rate Hac/Nos/Qlt/Rm	Amount
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 / %	238.69
	30x30x30 cm	150	95.45 / %	143.18
3	Filling of pits 45x45x45 cm	125	109.40 / %	136.75
	30x30x30 cm	150	76.35 / %	114.52
4	Carriage of plants over 2 km naked root 2 km P/Bags	125	14.10 / %/ Km	35.25
		150	87.25 / %/ Km	261.75
5	Planting B.L. Plants	125	73.60 / %	92.00
	Planting of raised in P/Bags	150	87.3 / %	130.95
	Total			1611.09
6	Add 16.67% increase			268.57
	Total			1879.66
7	Cost of Plants	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
	2nd Year Maintenance		3086	3100
	3rd Year Maintenance		2788	2800
	4th Year Maintenance		2490	2500
	5th Year Maintenance		2192	2200
	6th Year Maintenance		1894	1900
	7th Year Maintenance			1900
	Total Maintenance Cost			18380.00
	Grand Total			51880.00
	Note:- Protection cost of Lumpsum Rs. 1000/- is also included in the maintenance (1st year to 7th year maintenance)			

PER HA. COST MODEL FOR REPLENISHMENT AFFORESTATION

Sr. No.	Particulars of works	Quantity	Rate	Amount
1	Survey and demarcation of plantation area including making section path and Perparation of map	1 Hac	40.95	40.95
2	Cutting and preparation of wooden posts 1.80 mtr. Long and 8 to 10 cm dia including debarking and fastening the top 15 cm in conical shape	80 Nos	518.20 Per %	414.56
3	Carriage of fence post upto 2 mtr. Long and 8 to 10 cm dia over distance 1 kms	80 Nos	272.70 -do-	436.32
4	Preparation/digging of holes 20-30 cm dia and 45 cm deep	80 Nos	362.80 -do-	290.24
5	Fixing of wooden posts including strutting	80 Nos	278.45 -do-	222.76
6	Carriage of B/wire over average distance of 1km	1.50 Qtr	68.25 Per qtr	102.37
7	Stretching and fixing of barbed wire with U-staples in each strand	1050 Rm	1.90 Per Rm	1995.00
8	Interlacing of thorny bushes in B/wire fence	250 -do-	1.65 -do-	412.50
9	Preparation of inspection path 60 cm wide	150 -do-	4.35 -do-	652.50
10	Layout of pits over	1 Hac	68.15 Per Hac	68.15
11	Digging of pits 45x45x45cm	200 Nos	381.80 Per %	763.60
12	Digging of pits 30x30x30 cm	500 -do-	190.95 -do-	954.75
13	Filling of pits 45x45x45cm	200 -do-	109.40 -do-	218.80
14	Filling of pits 30x30x30 cm	500 -do-	76.35 -do-	381.75
15	Carriage of naked root plants over distance 2 kms.	200 -do-	14.10 Km %	56.40
16	Carriage of plants in P/bags over a distance of 2kms.	500 -do-	87.25 KM %	872.50
17	Planting of B.L Plants	200 -do-	73.60 -do-	147.20
18	Planting of Plants Raised in P/bags	500 -do-	87.30 -do-	436.50
19	Total			8466.85
19	Add increase		16.67%	1411.42
	Total			9878.27
20	Add cost of B/wire including cost of U.Nails.	1.50	4500	6750.00
21	Add cost of plants	700	4.00	2800.00
22	Add moisture retention intervention		3000 Per Hac	3000.00
23	Add protection cost of area	Lumpsum		500.00
24	Add cost of fence post	Lumpsum		5000.00
	Total			27928.27
	Or Say			28000.00

PER HA. COST MODEL FOR MAINTENANCE OF REPLENISHMENT AFFORESTATION

1st Year Maintenance				
Sr. No.	Particulars of works	Quantity	Rate Hac/ Nos/ Qtl/ Rm	Amount
1	Redigging of pits 45x45x45 cm	50	190.95%	95.47
	30x30x30 cm	125	95.45%	119.31
2	Filling of pits 45x45x45 cm	50	109.40 -do-	54.70
	30x30x30 cm	125	76.35%	95.43
3	Carriage of plants over 2 km naked root	50	14.10 / %/ Km	14.10
4	Carriage of plants over 2 km P/Bags	125	87.25 / %/ Km	218.12
5	Planting B.L. Plants	50	73.60 / %	36.80
6	Planting of Plants raised in P/Bags	125	87.30 / %	109.12
7	Repair of B/Wire Fencing	280	0.65 Rm	182.00
	Total			925.05
8	Add 16.67% increase			154.20
	Total			1079.25
9	Cost of Plants	175	4.00 Per Plant	700.00
	Total			1779.25
	Or say			1780.00
10	Protection cost of Plantation area Lumpsum			1000.00
	Grand Total			2780.00
	2nd Year Maintenance		2246	2300
	3rd Year Maintenance		2068	2100
	4th Year Maintenance		1890	1900
	5th Year Maintenance		1712	1750
	6th Year Maintenance		1534	1550
	7th Year Maintenance			1550
	Total Maintenance Cost			13930.00
	Grand Total			41930.00

PER HA. COST MODEL FOR ASSISTED NATURAL REGENERATION OF FORESTS.

Annexure - V

Sr. No.	Particulars of works	Quantity	Rate	Amount
1	Survey and demarcation of Plantation area including making section, path and preparation of map	1 hac	40.95	40.95
2	Cutting and preparation of wooden posts 1.80 mtr long and 8 to 10 cm dia including debarking and fastening the top 15 cm in conical shape	80 No	518.20%	414.56
3	Carriage of fence post up to 2 mtr. Long and 8 to 10 cm dia over distance 2 kms	80 No	272.70%	436.32
4	Preparation/digging of holes 20-30 cm dia and 45 cm deep	80 No	362.80%	290.24
5	Fixing of wooden posts including strutting	80 No	278.45%	222.76
6	Carriage of B/wire over average distance of 1km.	1.50 Qtle	68.25	102.37
7	stretching and fixing of barbed wire with U-staples in each strand.	1050 Rm	1.90	1995.00
8	Interlacing of thorny bushes in B/wire fence	250 Rm	1.65	412.50
9	preparation of inspection path 60 cm wide	150 Rm	4.35	652.50
10	Layout of pits over	1 Hac	68.15	68.15
11	Preparation of patches 30x30x25 cm	150 Nos	130.90	196.35
12	Digging of pits 30x30x30 cm	300 No	190.95%	572.85
13	Filling of pits 30x30x30 cm	300 Nos	76.35%	229.05
14	Carriage of plants over distance 2kms	300 Nos	87.25%	523.50
15	Sowing of seeds in patches 30x30x25 cm.	150 Nos	38.15%	57.22
16	Planting of plants raised in P/bags	300 Nos	87.30%	261.90
17	Subsidiary silviculture operations		1200.00	1200.00
	Total			7676.22
18	Add increase		16.67%	1279.62
19	Cost of B/wire including cost of U Nails.	1.50 Qtle	4500.00	6750.00
20	Cost of plants	300 Nos	4.00	1200.00
21	Cost of seeds	500 Gram	106.35	53.18
22	Add cost of fence posts	Lumpsum		5000.00
23	Add protection cost of area	Lumpsum		500.00
	Total			22459.02
	Or Say			22500.00

Annexure - VI				
PER HA. COST MODEL FOR MAINTENANCE OF NATURAL REGENERATION OF FORESTS.				
1st Year Maintenance				
Sr. No.	Particulars of works	Quantity	Rate Nos/Qt/Rm	Hac/ Amount
1	Reddiging of pits 30x30x30 cm	75	95.45 / %	71.59
2	Filling of pits 30x30x30 cm	75	76.35 / %	57.26
3	Carrage of plants over 2 km P/Bags	75	87.25 / %/ Km	130.88
6	Planting of raised in P/Bags	75	87.30 / %	65.48
7	Repair of B/Wire Fencing	280	0.65 / Rm	182.00
	Total			507.21
8	Add 16.67% increase			84.55
	Total			591.76
9	Cost of Plants	75	4.00 Per Plant	300.00
	Total			891.76
	Or say			900.00
10	Protection cost of Plantation area Lumpsum			1000.00
	Grand Total			1900.00
	2nd Year Maintenance		1630	1650
	3rd Year Maintenance		1450	1450
	4th Year Maintenance		1360	1400
	5th Year Maintenance		1270	1300
	Total Maintenance Cost			7700.00
	Grand Total			30200.00

Annexure - VII

PER HA. COST MODEL FOR DEVELOPMENT OF MEDICINAL PLANTS

Sr. No.	Particulars of works	Quantity	Rate	Amount
1	Survey and demarcation of plantation area including making sections, path and Preparation of map	1 Hac	40.95	40.95
2	Cutting and preparation of wooden posts 1.80 mtr. Long and 8 to 10 cm dia including debarking and fastening the top 15 cm in conical shape	80 Nos	518.20 Per %	414.56
3	Carriage of fence post upto 2mtr. Long and 8 to 10 cm dia over distance of 2 kms	80 Nos	272.70 -do-	436.32
4	Preparation/digging of holes 20-30 cm dia and 45 cm deep	80 Nos	362.80 -do-	290.24
5	Fixing of wooden posts including strutting	80 -do-	278.45 -do-	222.76
6	Carriage of B/wire over average distance of 2 km.	1.50 Qtl	68.25 per qtl/Km	102.37
7	Stretching and fixing of barbed wire with U-staples in each strand.	1050 Rm	1.90 Rm	1995.00
8	Layout of pits/patches	1 Hac	68.15 Per Hac	68.15
9	Digging of pits 30x30x30	2000 Nos	190.95Per%	3819.00
10	Filling of pits 30x30x30	2000 Nos	76.35 -do-	1527.00
11	Carriage of N.T.F.P. plants from nursery site over an average distance of 3 km.	2000 Nos	14.10 Per %/Km	846.00
12	Planting of N.T.F.P. plants	2000 Nos	73.60 Per %	1472.00
	Total		16.67%	1873.28
13	Add increase			
14	Cost of B/wire including U-Nails	1.50 Qtl	4500 Per Qtl	6750.00
15	Nursery Cost of N.T.F.P. plants	2000 Nos	2.00 Per plant	4000.00
16	Cost of fence posts	Lumpsum		5000.00
17	Add protection cost of area	Lumpsum		500.00
	Total			29357.61
	Or Say			29300.00

PER HA. COST MODEL FOR MAINTENANCE OF DEVELOPMENT OF MEDICINAL PLANTS

1st Year Maintenance				
Sr. No.	Particulars of works	Quantity	Rate Hac/ Nos/Qtl/Rm	Amount
1	Redigging of pits 30x30x30 cm	500	95.45 / %	477.25
2	Redigging of patches 30x30x25 cm	500	65.45 / %	327.25
3	Filling of pits 30x30x30 cm	500	76.35 / %	381.75
4	Carriage of medicinal plants / naked root over distance of 3Km	500	14.10 /% / Km	211.50
5	Planting of N.T.F.P plants	500	73.60 /%	368.00
6	Repair of B/Wire Fencing	350	0.65 / Rm	227.50
	Total			1993.25
	Add 15.67% increase			332.27
	Total			2325.52
	Cost of Plants	500	3 / Plant	1500.00
	Total			3825.52
	Or say			3700.00
7	Protection cost of Plantation area Lumpsum			1000.00
	Grand Total			4700.00
	2nd Year Maintenance		3290	3300
	3rd Year Maintenance		2820	2800
	Total Maintenance Cost			10800.00
	Grand Total			40100.00

Annexure - IX			
PER HA. COST MODEL FOR TREATMENT OF PASTURE LAND ALPINE PASTURES			
Sr. No.	Particulars of works	Quantity	Rate Hac/ Nos/ Per%/Qt/Rm
1	Survey and demarcation of pasture land including making	1	40.95
2	Weeding of obnoxious weeds over	1	2000.00
3	Preparation of patches 60x60x25 cm	800	259.05
4	Sowing of seed in prepared patches 60 cm x 60cmx25cm	800	75.30%
5	Application of fertilizer over 1 hac.	1	200.00
	Total		4,915.75
6	Add increase 16.67%		819.46
	Total		5735.21
7	Cost of fertilizer and seeds		550.00
8	Moisture retention interventions		2500.00
	Total		8785.21
	Or say		8,800.00

PER HA. COST MODEL FOR TREATMENT OF PASTURE LANDS LOW LYING PASTURES				
Sr. No.	Particulars of works	Qty / Hac / Nos / %age / Qtt / Rmt.	Rate Hac / Nos / %age / Qtt / Rm	Amount
1	Survey and demarcation of plantation area including making sections, path and preparation of map.	1	40.95	40.95
2	Cutting and preparation of wooden posts 1.80 mtr. Long and 8 to 10 cm dia including debarking and fastening the top 15 cm in conical shape	80	518.20%	414.56
3	Carrage of fence post upto 2 mtr. Long and 8 to 10 cm dia over distance 2 kms	80	272.70% Km.	436.32
4	Preparation / digging of holes 20-30 cm dia and 45 cm deep	80	362.80% Nos	290.24
5	Fixing of wooden posts including strutting	80	278.45% Nos	222.76
6	Carrage of B/wire over average distance of 1 km	1.50	68.25	102.37
7	Stretching and fixing of barbed wire with U-staples in each strand	1050	1.90	1995.00
8	Interlacing of thorny bushes in B/wire fence	250	1.65	412.50
9	Preparation of inspection path 80 cm wide	150	4.35 Rmt.	652.50
10	Preparation of gradoni trenches 30x30 cm	400 Rmt.	5.40 Rmt.	2160.00
11	Layout of pits and patches	1	68.15	68.15
12	Digging of pits 45x45x45cm	500	381.80% Nos	1909.00
13	Filling of pits 45x45x45cms	500	109.40% Nos.	547.00
14	Carrage of plants over distance 2 kms.	500	14.10% Nos	141.00
15	Planting of B. L. Plants	500	73.80% Nos	368.00
16	Planting of grass tufts in gradoni structures/trenches over ridge*	2000	1.20 / %	24.00
	Total			9784.35
17	Add increase		16.67%	1631.05
	Total			11415.40
18	Cost of Barbed wire with U nails.	1.5	4500.00	6750.00
19	Cost of Plants	500 4 / Plant		2000.00
20	Cost of grass tufts	2000	0.80	1600.00
21	Add protection cost of area	Lumpsum		500.00
22	Cost of fence posts	Lumpsum		5000.00
	Total			27265.40
	Or say			27250.00

Note :- * 5 no. of Grass tufts per trench of 1meter size

Annexure - XI				
PER HA. COST MODEL FOR MAINTENANCE OF LOW LYING PASTURES LAND				
1st Year Maintenance				
Sr. No.	Particulars of works	Quantity Hac/Nos/ Qtl/Rm	Rate Hac/ Nos/ %/ Qtl/Rm	Amount
1	Redigging of pits 45x45x45 cm	125	190.95 / %	238.68
2	Filling of pits 45x45x45 cm	125	109.40 / %	136.75
3	Carriage of plants over 2 km naked root	125	14.10 / %/ Km	35.25
5	Planting B.L. Plants	125	73.60 / %	92.00
6	Replanting of grass tufts	500	1.20 / %	6.00
7	Repair of B/Wire Fencing	350	0.65 / Rm	227.50
	Total			736.18
	Add 16.67% increase			122.72
	Total			858.90
8	Cost of Plants	250	4.00 / plant	1000.00
	Total			1858.90
	Or say			1850.00
9	Protection cost of Plantation area Lumpsum			1000.00
	Grand Total			2850.00
	2nd Year Maintenance		2295	2300
	3rd Year Maintenance		2110	2100
	4th Year Maintenance		1925	1950
	5th Year Maintenance		1740	1750
	Total Maintenance Cost			10950.00
	Grand Total			38200.00

Annexure - XII (a)

COST MODEL FOR CONSTRUCTION OF CHECK WALLS 2 Mtr. LENGTH.					
Sr. No.	Particulars of works	Length/breadth/ height	Quantity	Rate	Amount
1	Excavation in foundation for construction of check wall in 1/2 pick and 1/2 jumper work	2x1.20x0.60	1.44 Cum	54.80	78.91
2	Spreading of inter linked chain in check wall		12 Sqm	13.10	157.20
3	Construction of check walls in dry rough stone masonry including rough dressing	2*(1.20+1.00/2)* 1.60	3.52 Cum	100.45	353.58
4	Collection of Loose stone		2.50 Cum	45.50	113.75
5	Collection of B/Stone		1.20 Cum	70.10	84.12
6	Breaking of B/stone		1.20 Cum	100.00	120.00
7	Carriage of stone over distance 1/2 Kms.		3.52 Cum	336.70	592.59
8	Tipping of interlink chain		3.52 Sqm	26.25	92.40
	Total				1592.55
	Add Increase 16.67%				265.48
	Total				1858.03
	Cost of Interlink Chain		12 Sqm	72.00	864.00
	Grand Total				2722.03
	Or Say				2700.00

Annexure - XII (b)

COST MODEL FOR CONSTRUCTION OF CHECK WALLS 3 Mtr. LENGTH.

Sr. No.	Particulars of works	Length/breadth/ height	Quantity	Rate	Amount
1	Excavation in foundation for construction of check wall in 1/2 pick and 1/2 jumper work	3x1.20x0.60	2.16 Cum	54.80	118.37
2	Spreading of inter linked chain in check wall		20 Sqm	13.10	262.00
3	Construction of check walls in dry rough stone masonry including rough dressing	3*(1.20+1.00/2)* 1.60	5.28 Cum	100.45	530.38
4	Collection of Loose stone		2.50 Cum	45.50	113.75
5	Collection of B/Stone		3 Cum	70.10	210.30
6	Breaking of B/stone		3 Cum	100.00	300.00
7	Carriage of stone over distance 1/2 Kms		5.28 Cum	336.70	888.89
8	Tipping of interlink chain		5.28 Sqm	26.25	138.60
	Total				2562.29
	Add Increase 16.67%				427.13
	Total				2989.42
	Cost of Interlink Chain		20 Sqm	72.00	1440.00
	Grand Total				4429.42
	Or Say				4400.00

Annexure - XII (c)

COST MODEL FOR CONSTRUCTION OF CHECK WALLS 5 Mtr. LENGTH.					
Sr. No.	Particulars of works	Length/breadth/ height	Quantity	Rate	Amount
1	Excavation in foundation for construction of check wall in 1/2 pick and 1/2 jumper work	5x1.20x0.60	3.60 Cum	54.80	197.28
2	Spreading of inter linked chain in check wall		30 Sgm	13.10	393.00
3	Construction of check walls in dry rough stone masonry including rough dressing	5*(1.20+1.00/2)* 1.60	8.80 Sgm	100.45	883.96
4	Collection of Loose stone		5 Cum	45.50	227.50
5	Collection of B/Stone		4 Cum	70.10	280.40
6	Breaking of B/stone		4 Cum	100.00	400.00
7	Carriage of stone over distance 1/2 Kms.		8.80 Cum	336.70	1481.48
8	Tipping of interlink chain		8.80 Cum	26.25	231.00
	Total				4094.62
	Add increase 16.67%				682.57
	Total				4777.19
	Cost of Interlink Chain		30 Sgm	72.00	2160.00
	Grand Total				6937.19
	Or Say				6900.00

COST MODEL FOR CONSTRUCTION OF CHECK WALLS 7 Mtr. LENGTH.

Annexure - XII (d)

Sr. No.	Particulars of works	Length/breadth/ height	Quantity	Rate	Amount
1	Excavation in foundation for construction of check wall in 1/2 pick and 1/2 jumper work	7x1.20x0.60	5.04 Cum	54.80	276.19
2	Spreading of inter linked chain in check wall		42 Sqm	13.10	550.20
3	Construction of check walls in dry rough stone masonry including rough dressing	$7 \times (1.20 + 1.00/2) \times 1.60$	12.32 Sqm	100.45	1237.54
4	Collection of Loose stone		6 Cum	45.50	273.00
5	Collection of B/Stone		7.50 Cum	70.10	525.75
6	Breaking of B/stone		7.50 Cum	100.00	750.00
7	Carriage of stone over distance 1/2 Kms.		12.32 Cum	336.70	2074.07
8	Tipping of interlink chain		13 Sqm	26.25	341.25
	Total				6028.00
	Add Increase 16.67%				1004.87
	Total				7032.87
	Cost of Interlink Chain		42 Sqm	72.00	3024.00
	Grand Total				10056.87
	Or Say				10050.00

Annexure - XIII

COST MODEL FOR CONSTRUCTION OF WIRE CRATE PROTECTION WALL (10MT LENGTH)					
Sr. No.	Particulars of works	Length/breadth/ height	Quantity	Rate	Amount
1	Cutting in 1/2 pick and 1/2 jumper work	10x1.5x2	15 m3	55.80	822.00
2	Excavation in foundation for construction of P/wall in 1/2 pick and 1/2 jumper work	10x1.25x0.25	3.125 m3	89.75	280.48
3	Spreading of inter linked chain in P/wall				
	1st Step Top & Bottom 2No	10x1.25	25m2		
	Front & Back 2No.	10x1.25	25m2		
	Side / Ends 2No.	1.25x1.25	3.125m2		
	Partitions 4 No.	1.25x1.25	6.25m2		
	Total		59.38m2		
	2nd Step -----Do-----		59.38m2		
	Total		118.76m2	13.10 / m2	1555.75
4	Boulder stone filling tightly as in wire crate for construction of protection wall				
	1st Step 1No.	10x1.25x1.25	15.62m3		
	2nd Step 1No.	10x1.25x1.25	15.62m3		
	Total		31.24m3	57.65 / m3	1800.96
5	Tipping of interlink chain	-Do-	31.24 m3	26.25 / m3	820.05
6	Collection of Loose stone		15.62	45.50	710.71
7	Collection of B/Stone		15.62	70.10	1094.96
8	Breaking of B/stone		15.62	100.00	1562.00
9	Breaking of L/stone		15.62	44.95	702.11
10	Carriage of stone over distance 250 meter by manually.		31.24m3	336.7 / m3 / km	2629.62
	Total				11978.64
11	Add Increase 16.67%				1996.84
	Total				13975.48
12	Cost of Interlink Chain		118.76m2	72.00	8550.72
	Grand Total				22526.20
	Or Say				22500.00

ESTIMATE FOR THE CONSTRUCTION OF WATER TANK (4.50x2.50x1.50)										Annexure - XIV	
S.No.	Particulars	No.	L	B	H/D	QTY.	Rate	Unit	Amount		
						Job					
1	Clearance of Site							m ³	3000		
2	EXCAVATION: In foundation, trenches, etc. in earth work, up to 1.50 metres stacking the excavated soil not more than 30 mtrs. Clear from the edge of the excavation and then returning the stacked soil in 15cm layers, when required into plinth sides of foundation etc. consolidating each deposited layer by ramming and watering and then disposing off all surplus excavat soil as directed within lead of 30 mtrs. in pick work							m ³			
	1. Water Tank	1.00	4.50	2.50	0.50	5.80		0 m ³	0		
	2. Long Wall	2.00	6.50	1.00	0.08	9.75		0 m ³	0		
	3. Short Wall	2.00	2.50	1.00	0.75	3.75		0 m ³	0		
					Total	19.10		89.75 m ³	1714.23		
3	Filling of boulder stone sand packed under floor 15cm thick.	1.00	4.50	2.50	0.2	1.88		50.80 m ³	58.78		
4	Laying C.C. 1:5:10 (1 cement, 5 sand, 10 aggregate) in foundation and under floor 1/c ramming and handling of materials within 100 mtrs							m ³			
	1. Long wall	2.00	6.50	1.00	0.3	3.25		m ³			
	2. Short wall	2.00	2.50	1.00	0.3	1.25		m ³			
	3. Under floor	1.00	4.50	2.50	0.30	3.37		m ³			
			Total								
			4.50	2.50	--	7.87		225.4 m ³	1774.80		
5	Laying of 5 cm thick cement concrete flooring 1:2:4 (1 cement, 2 sand, 4 stone ballast 12 mm & down gauge) finished with a floating coat of neat cement.	1						m ³	654.63		
6	R.R. Stone masonry in foundation and plinth in cement mortar 1:4 (1 cement, 4 sand)							m ³			
	1. Long wall	2	6.50	1.00	0.50	6.50		m ³			
	2. Short wall	2	2.50	1.00	0.50	2.50		m ³			
		Total				9.00		378.3 m ³	3404.25		
7	H.D.C.R. stone masonry in super structure in cement mortar 1:4 (1 cement, 4 sand 1/c dressing of stone and water charges.							m ³			
	1. Long wall	2	6.50+5.50/2	1+0.50/2	1.50	13.50		m ³			
	2. Short wall	2	2.50+1.50/2	1.5	5.00			m ³			
		Total				19.10		692.85 m ³	13233.435		

Annexure XV (a)

INDICATIVE LIST OF AREA IDENTIFIED FOR TREATMENT UNDER VARIOUS COMPONENTS

(a) ESTABLISHMENT OF CAT PLAN NURSERIES

Sr.No.	Name of Range	Name of Nursery	Area in Hac	Proposed Species to be raised
1	Sarahan	Bhagawat	0.5	Deodar, Khanor, Behmi, Chulli
		Rawancha	0.5	Deodar, Khanor, Walnut, Chulli
		Joghori	0.5	Fir / Spruce, Deodar, B/ Cherry
2	Rampur	Sarpara	0.5	Deodar, Khanor, Walnut, Chulli
		Darshal	0.20	Chil, Ban, Behul
		Kashapat	0.50	Deodar, Poplar, Robinia, Ailanthus
		Kutoo	0.25	Kunish, Robinia, Chil, Poplar, Drak
		Khakrola	0.40	Chil, Ailanthus, Robinia, Amatas, Ban, Oak, Poplar, Drake, Ritha
3	Bahli	Urman	0.25	Chil, Ailanthus, Poplar, Drake, Robinia
		Jarashi	1	Fir/Spruce, Deodar, Mapple, Bird Cherry
		Chasani	0.2	Deodar, Poplar, Pyrus pashia
		Bahli	0.1	Deodar (P/Bags), Bird Cherry, Mapple
		Arli	0.2	Poplar, Chil, Robinia, Siris, Daral, Walnut, Shisham
		Rajpura	0.1	Chil, Robinia, Shisham, Daru, Amia
		Shaily	0.2	Chil, Robinia, Walnut, Ailanthus, Pyrus pashia, Tun
		Beunthal	0.5	Deodar, Chil, Poplar, Walnut, Robinia
		Marala	0.5	Deodar, Walnut, Mapple, Bird Cherry, Medicinal Plants
		4	Nankhari	Raila
Sholi	0.20			Deodar, Robinia, Chil, Lucenia, Ailanthus, Ritha, Drake
Chaki	0.25			Chil, Robinia, Lucenia, Drake, Ritha, Ailanthus, Walnut
Bhadari	0.20			Fir/Spruce, Deodar, Khanor, Walnut, Poplar
5	Arsu	Shroo	0.5	Chil, Robinia, Poplar, Ailanthus, Amatas
		Kasumba	0.20	Deodar, Khanor, Rai, Tosh, Karoo, Patish Etc.
		kazu-Khad	0.25	Chil, B/L, Spp.
		Chambu	0.20	Chil, Shis, Ritta Ailan Amatas
		Arsu	0.20	Deo, Chil, Rob, Pop, Rita, Chulli
		Burni	0.5	Chil, Robinia, Shisham, Drake
		Tharia	0.2	Deodar, Rai, Tosh, Ban, Khanor
6	Nither	New Nry, Shelli	0.10	Chil, Siris, Robinia
		SanderVan Nry.	0.10	Chil, Robinia, Ailanthus, Siris
		Shila Nry	0.20	Deo, Robinia, Poplar
		New Nry, Dokhari	0.10	Shisham, Drake, Bheul & B/L
		Duraha	0.10	Deodar, Robinia, Drake, Chulli
		New Nry, Kail	0.10	Chil, Robinia, Drake
		Margi Nry.	0.10	Deodar, Poplar
		Ghattu Nry	0.10	Robinia, Shisham, Siris, Ailanthus
		Bathwa	0.10	Chil, Robinia, Poplar
		Medicinal Nry	0.10	Karoo, Patish, Kuth, Shingli-Mingli

Afforestation of Degraded Forest Land							
Sr. No.	Name of Range	Name of Block	Name of Beat	Name of Area	Area in ha.	Suggestive Choice of spp.	Suggestive Type of Fencing
1	Sarhian		Koot	U.F. Suru	5	Allanithus, Chil	B/Wire Fencing
			Rawancha	U.F. Rawancha	5	Deodar, Khanor, Poplar	B/Wire Fencing
			Jaghor	U.F. Chandl	5	Deodar, Khanor, Poplar	B/Wire Fencing
				U.F. Chalan	5	Deodar, Khanor, Poplar	B/Wire Fencing
				U.F. Molgi	5	Chil, Amaltas	Stone Fence Pillar
				U.F. Pachtaich	5	B/L Species, Chil	Stone Fence Pillar
				Garhada	5	B/L Species, Chil	Stone Fence Pillar
				Kakshi	5	B/L Species, Chil	Stone Fence Pillar
				Badrail	5	B/L Species, Chil	Stone Fence Pillar
				Total	45		
2	Rampur		Rampur	U.F. Jagocha	5	Shisham, Allanithus, Kunlish, Robinia	Stone Fence Pillar
				Khaneri	5	Chil, Allanithus, Ritha, Drake	-do-
				Fendhar	5	Chil, Allanithus	-do-
				Soom	5	Chil, Shisham	Stone Fence Pillar
				Deolan	5	Chil, Shisham, Drake	-do-
				Deakolar II	5	Shisham, Robinia, Ritha	-do-
				Thach	5	Deodar, Kail	-do-
				Paal Thach	5	Deodar, Kail	-do-
				Rahan	5	Chil	Stone Pillars
				Pawa Nalla	5	Euclyptus, Chil	-do-
3	Bahli		Nogli	Dutnagar	5	Chil	Stone Fence Pillar
				Badrash	5	Chil	-do-
				Chiksa	5	Deodar, Kail	-do-
				Soom	5	Chil, Poplar	Stone Pillar Fencing
				Kamsan	5	Ban, Oak	-do-
				Anoo-Rakshi	5	Chil	-do-
				Urman	5	Chil	Stone Pillar Fencing
				Barkal	5	Chil, Robinia	-do-
				KashalPat	5	Deodar, Kail	-do-
				Darshal	10	Ban, Drake, Chil	Stone Pillar Fencing
	U.F. Darshal	5	Chil	B/Wire Fencing			
	Total Rampur Range	105					
	Bahli	Bahli		5	Deodar	B/Wire with F. post.	

			U.P.F Bahali	5 Deodar	-do-
			Sobali	5 Chil	Stone Fence wall
			Shaily	5 Chil	Stone Pillar
	Suid		U.P.F Dhansa	5 B/L	-do-
			Shindhar	5 Deo/Fir	-do-
			C-127 Kandreni	5 B/L and Deo	-do-
	Surd		U.P.F Natal	5 Deo & B/L	B/Wire with Wooden F Post
			C-134 Suraid	5 Deo	B/Wire with Wooden F Post
	Beunthel		U.P.F Majeub	5 Chil	Stone Pillar of fence wall
			U.P.F Pai	5 Deo & B/L	B/Wire with Wooden F Post
	Taklech		C-167 Agadhar	5 Chil	Stone Fence wall
	Theda		U.P.F-83 Khamotu	5 Chil	Stone Pillar / B/Wire
	Darkali		U.P.F Marala	5 Deo & B/L	B/Wire with Stone Pillar
			Total Bahli Range	70	
4	Nankhari	Sholi	Delafh	5 Chil & B/L	B/Wire with stone P.
			Pandadhar	5 Chil & B/L	-do-
			Kalanthi	5 Chil & B/L	B/Wire with F.S.
			Nawan	10 Chil & B/L	-do-
	-do-		Bagani Ist	5 Chil & B/L	B/Wire with F.P.
			Chelehain	10 Deodar	-do-
	-do-		Jhrai Dhar	5 B/Leave	-do-
			Garali	5 Chil/B/L	-do-
			C-116 KMundir	10 Deodar, B/leave	-do-
			C-119 -do-	10 Rai / Fir	-do-
	-do-		Bal Behali	5 Rai / Fir	-do-
			C-122 Behali	10 Chil B/L	-do-
			UF Tangri	10 Chil B/L	-do-
			Total Nankhari Range	80	
			Total Rampur Division	300	
5	Arasu	Kharga	Sargha	2/1 Bari c-II	Wooden Fence Post with B/Wire Fencing
			Bagani	10 Deodar, B/L	-do-
			2/2 Za	10 Deodar, B/L	-do-
		Kindia	Kund-Kafi	10 Chil B/L	Stone Pillar
			Baidari	10 Chil B/L	-do-
			Shroo	5 Chil B/L	Stone Fence wall
		Khurga	1/1 Tikkar Kashikhanik	10 Chil B/L	Wooden Fence Post with B/Wire
			Tandi	10 Chil B/L	-do-
		Tonah	Piptisori	10 Chil B/L	-do-
			Gundi	10 Kall	-do-

	Nirmand	Brow	UPF Rali	10 Chl, B/L	Stone Fence Pillar
		Averi	Chiladhar	10 Chl, B/L	-do-
			Bhimpolara	10 Chl, B/L	-do-
		Nirmand	Pigly	10 Chl, B/L	-do-
			Shaur	5 Chl, B/L	-do-
		Pujarli	Bianodi	10 Deodar, Kail	Wooden Fence post with B/wire
			Kandu	10 Chl, B/L	-do-
	Arasu	Arasu	Suma	10 Deodar	-do-
		Buini	Kharai	5 Chl, B/L	-do-
		Tharvi	Deolhan	5 Deodar, B/L	-do-
		Palli	Pranifa	5 Chl, B/L	-do-
	Sarahan	Sarahan	UPF Sarahan	10 Deodar, Kail	-do-
		Shamani	UPF Shalat	5 Chl, B/L	-do-
			UPF Bijli	5 Chl, B/L	-do-
			Badana	5 Chl, B/L	-do-
		Tharla	UPF Baswan C2	10 Deodar, Chl	-do-
		Juagi	UPF Tander	10 Deodar, Chl	-do-
			UPF Nagerh	10 Deodar, Chl	-do-
				240	
			Total Arasu Range		
6	Nither	Nither	Billia Helli	10 Shisham, Robinia, Siris	Stone Fence Pillar
			Chenthwa	20 Chl, Robinia, Siris, Ailanthus	Stone Fence Pillar
			Moan	10 Chl, Robinia, Siris, Ailanthus	Stone Fence Pillar
			Aflu	5 Chl, Robinia, Siris, Ailanthus	Stone Fence Pillar
		Nither	Mohnu	15 Chl, Robinia, Chuli Drake	Stone Fence Pillar
			Nintha(chulidhar)	20 Chl, Robinia, Chuli Drake	Stone Fence Pillar
			Bai	10 Deodar	Stone Fence Pillar
		Sarsher	Gowal II	20 Deodar	Stone Fence Pillar
			Bohun	10 Deodar, Robinia	Stone Fence Pillar
		Koli	Thai Nai	10 Ailanthus, Robinia Siris	Stone Fence Pillar
			Shardhar	20 Chl, Robinia, Drake	Stone Fence Pillar
			Dudidhar	7 Chl, Robinia, Drake	Stone Fence Pillar
		Margi	Kathell	15 Deodar, Poplar	Wooden Fence Post
			Raghyaya	5 Deodar, Poplar	Stone Pillars
			Beljan	10 Deodar, Poplar	Stone Pillars
		Ghatu	Gantidhar	15 Robinia, Shisham, Siris	Stone Pillar Fencing
			Pokhen	8 Robinia, Shisham, Siris	Stone Pillar Fencing
		Nore	Khooto	10 Chl, Robinia	Stone Pillars
		Katmore	Bakrihoker	10 Deodar, Poplar	-do-
			Lalpani	10 Deodar, Poplar	-do-
				240	
			Total Nither Range	480	
			Total Ani Division	780	
			G. Total A.D.F.L.		

				UPF Baididhar	5 Deodar	-do-
				UPF Damrali	5 B/L	-do-
				C-157 Darkali	5 Deodar, B/L	-do-
				Total Behli Range	100	
4	Nankhari	Sholi		Panour	10 Deodar, B/L	-do-
				Chakb	5 Deodar, B/L	-do-
					5 Deodar, B/L	-do-
				C-102 Thaly	5 Deodar, B/L	-do-
				C-103 Nnkhari	5 Deodar, B/L	-do-
				C-111 Kastardhar	5 Deodar, B/L	-do-
				C-105 Shaakla	5 Deodar, B/L	-do-
				C-112 Nankhari	5 Deodar	-do-
				K/Munder	5 Deodar, B/L	-do-
				Bair/Bahli	5 Ral, Fir	-do-
				Banala Ist	5 B/L	-do-
				Pangroti	5 B/L	-do-
				Total Nankhari Range	55	
				Total Rampur Division	260	
5	Arsu	Kharga		2/1 Barati c III	5 Deodar	B/Wire with Wooden F. Post
				Saraga	5 Chil, B/L	Stone Piller
				Kindla	5 Deodar, Chil	B/Wire with Wooden F. Post
				Kushwa	5 Chil, B/L	-do-
				Kharga	5 Deodar, Chil	-do-
				Chita Age	5 Deodar, Chil	-do-
				Duwan C-41	5 Chil, B/L	-do-
				Tunan	5 Chil, B/L	-do-
				Brow	5 Chil, B/L	-do-
				UPF Raku-lind	5 Chil, B/L	-do-
				Averi	5 Chil, B/L	-do-
				Sharadhar	5 Chil, B/L	-do-
				Bali	5 Chil, B/L	-do-
				Nirmand	5 Chil, B/L	Stone Fence Piller
				Shishwa	5 Chil, B/L	-do-
				Chambo	5 Chil, B/L	-do-
				1/3 R.G. Kandi C-III	5 Deodar, Chil	Wooden fence post with wire
				Arsu	5 B/L	-do-
				Trikan Kainchi	5 Deodar	-do-
				Bashlejan	5 Chil, B/L	-do-
				Buni	5 Chil, B/L	-do-
				Shuri	5 Chil, B/L	-do-
				Shabog	5 Chil, B/L	-do-
				Bagipul	5 Chil, B/L	-do-
				Amatwa	5 Deodar	-do-
				Tharvi	5 Deodar, Chil	-do-
				Sarahan	5 Deodar, Chil	-do-
				Shamani	5 Deodar, Chil	-do-
				Kulapani C-II	5 Deodar, Chil	-do-
				Tharia	5 Deodar	-do-
				Jawagi	5 Deodar	-do-
				2/12 Balucha	5 Deodar	-do-
				Total Arsu Range	110	

Assisted Natural Regeneration							Annexure XV (d)
Sr. No.	Name of F Block	Name of Beat	Name of area	Area in Hac.	Suggestive Choice of spp.	Suggestive Type of Fencing	
1	Sarahan	Rawancha	D.P.F. C-194	10	Deodar, B/L	B/wire Fencing	
		Jaghothi	D.P.F. 198 (b)	5	Deodar, B/L	B/wire Fencing	
		Phancha	D.P.F. C-202	5	Deodar, B/L	B/wire Fencing	
			D.P.F. C-208	5	Deodar, B/L	B/wire Fencing	
			D.P.F. C-210 (a)	5	Deodar, B/L	B/wire Fencing	
		Kobil	U.F. Darla	5	Deodar, B/L	B/wire Fencing	
		Kobil	U.F. 22	10	Deodar, B/L	B/wire Fencing	
			D.P.F. C-215	5	Deodar, B/L	B/wire Fencing	
				50			
2	Rampur	Deothi	C-162	5	Deodar	B/wire Stone	
		Nogli	Shikandhar	20	Deodar	B/wire Fence post	
				25			
3	Bahli	Bahli	C-150 Bahli	5	Deodar	B/wire Fence post	
			C-151 Bahli	5	Deodar, B/L	-do-	
			C-132 Surd	5	Deodar, B/L	-do-	
				5	Deodar, B/L	-do-	
				20			
4	Nankhari	Sholi	U.F. Nagadhar	5	Deodar	B/wire with F/Post	
		Deith	U.F. Tutu	5	Deodar, B/L	-do-	
		Chakti	C- 102 Thally	5	Deodar	-do-	
			C- 103 Nankhari	10	Deodar	-do-	
			Bastadhar	5	Deodar	-do-	
		Sholi	C-106 Sholi Ist	10	Deodar	-do-	
			C-107 Khumoldhar	10	Deodar	-do-	
			C-106 Sholi Iind	10	Deodar	-do-	
		Nankhari	Khophtoo Nalla	5	Deodar	-do-	
		K/Mundar	Mundardhar	10	Deodar	-do-	
		Baji/Bahli	C-121 Kungai	10	Deodar, B/L	-do-	
			Bai	5	B/L	-do-	
			Manjdhur	10	B.L	-do-	
				100			
				195			
5	Arasu	Kharga	UPF/Sarga	5	Kali Patch	B/wire Fence with wooden F/post	
			UPF/Neokunder	5	B/L Spp.	-do-	
			Keodhar	5	B/L Spp.	-do-	

	Kindia	Nonu Kanda	5 Deodar, Kail	-do-
	Shahdhar		5 Deodar, B/L	-do-
	Kharga	1/1 Tikker-II C-II (a)	15 Deodar	-do-
	Tunan	Oppidhar	10 Kail Patch	-do-
	Nirmand	Shaur	5 Chil, B/L	-do-
	Pujarli	Monu Thach 1/3RG	5 Kail Patch	-do-
	Arso	KandC-II		
	Bumi	Duga	5 Chil, B/L	-do-
	Tharvi	Tharvi	5 Deodar	-do-
	Pali	Shakarwa	10 Deodar	-do-
	Sarahan	R/3 Jajut	20 Kail Patch	-do-
	Shamari	Kulapani C-I	20 Kail Patch	-do-
	Tharila	4/5 Kandu Shilla C-III	10 Kail Patch	-do-
	Jawagi	Shilli Girchi C-II	15 Deodar, Kail	-do-
	Total Arsu Range		145	
6	Nither	Scraher	20 Deodar, Kail, Sowing	Wooden Fence Post
		1/15 Laskayon	20 Deodar, Kail, Sowing	-do-
	Margi	Nore	20 Deodar, Kail, Sowing	Wooden Fence Post
	Total Nither Range		60	
	Total Ani Division		205	
	G.Total A.N.R.		400	

Development of Medicinal Plant						Annexure XV (e)		
Sr.No.	Name of Range	Name of Block	Name of Beat	Name of area	Area in Hac.	Suggestive Choice of spp.		
1	Sarahan		Koot	D.P.F.C-191	5	Dhoop, Karoo, Patish, Bankakri		
			Rawancha	D.P.F.C-192				
			Joghari	D.P.F.C-198				
			Phancha	D.P.F.C-207				
			Sarpara	D.P.F.C-213				
				D.P.F.C-121(a)Chutki				
2	Rampur	Deothi	Kashapat	Tikkkeri	10	Karoo, Dhoop, Dioscoria		
					Kro-Matey	10	Karoo, Dhoop, Dioscoria	
			Total Rampur Range				20	
3	Bahli	Bahli	Bahli	D.P.F. Nehra	5	Deodar		
					U.P.F Bahali	5	Deodar	
			Surd	Khmedi	U.P.F Dhansa	5	B/L	
				Beunthel	U.P.F Majeubi	5	Chil	
			Taklech	Takiech	C-167 Agadhar	5	Chil	
				Theda	U.P.F-83 Khamotu	5	Chil	
Total Bahli Range				30				
4	Nankhari				0			
Total Rampur Division					80			
5	Arsu	Kharga	Sarga	i) 2/1 Barali C-I	5	Karoo, Dhup, Chora		
				ii) 2/1 Barali C-II	5	Karoo, Dhup, Chora		
				iii) 2/1 Barali C-III	5	Karoo, Dhup, Chora		
			Kindella	i) Narkyu	5	Karoo, Dhup, Chora		
			Kharga	2/5 Baghori	5	Karoo, Dhup, Chora		
			Tunan	Gameni Kanda	5	Karoo, Dhup, Chora		
			Tharvi	Kaleo	10	Chora, Shingli-Mingli		
			Pali	Baraduga	5	Chora, Shingli-Mingli		
			Brow	Ponesha	5	Dhup, Karoo, Chora		
			Sarahan	Tharla	Bhaghir Tilla 2/17 Dadai	10	Dhup, Karoo, Chora	
				Jawagi	Sarkocha	5	Dhup, Karoo, Chora	
			Total Arsu Range				65	
			6	Nither	Neether	Soraher	Potherage	10
Margi	Margi	Lajogni				5	Chora, Karoo, Patish, Kuth	
	Katmore	Ratachoa				10	Dhup, Kuth, Karoo, Chora	
Total Nither Range				25				
Total Ani Division					90			
G.Total Development of Medicinal Plants					170			

Alpine Pasture								
Sr. No.	Name of Range	Name of Block	Name of Beat	Name of Area	Area in Hac	Suggestive Choice of spp.		
1	Sarahan		Koot	Makvi Pasture	5	Rattanjot, Karoo		
			Phancha	Phancha Kandi (Majbon)	5	Rattanjot, Dhoop, Methi-Patish		
			Bhagawat	Saravi Kanda	5	Rattanjot, Methi-Patish		
					15			
2	Rampur	Deothi	Kashapat	Ghatghore	10	Clover gress sowing		
	Total Rampur Range				10			
3	Bahli	Nil	Nil	Nil	0			
4	Nankhari	Nil	Nil	Nil	0			
	Total Rampur Division				25			
5	Arsu	Kharga	Sarga	Muhama Kanda	10	Grass		
				Bagani Thach	5	Grass		
				Kindia	1)1/2 Bhageri Raita	10	Grass	
				Tunan	Tikkar Kanda	10	Grass	
				Arsu	Galol	10	Grass	
					Tharvi	Andri Thach	5	Grass
					Palli	Pankwa-Chanwa	5	Grass
				Sarahan	Sarahan	Bashiwa	10	Grass
					Tharia	2/15 Dwari danda	5	Grass
					Jawagi	Biran	10	Grass
				80				
6	Nither	Nither	Nither	Nehunal	10	Grass Sowing		
			Soraher	Chambul	10	Grass Sowing		
					20			
	Total Ani Division				100			
	G.Total Alpine Pasture				125			

Low Lying Pasture				Annexure XV (g)	
1	Sarahan	Koot	U.P. Kutru	5 Steria grass, Behul, Tut	
		Phancha	U.P. Ganvi	5 Steria grass, Behul, Tut	
		Sarpara	U.P. Dharmcha	5 Steria grass, Behul, Tut	
				15	
2	Rampur	Nogli	Duttnagar	5 Robinia, Drake	
			Nogli	5 Robinia, Drake	
			Thanal	5 Robinia, Drake	
Total Sarahan Range				15	
3	Bahli	Bahli	Chowka	5 Grass & B/L	
		Taklech	Taklech	10 B/L & grasses	
		Surad	Surad	5 B/L & grasses	
			Buenthal	5 B/L & grasses	
			UPF Pai	5 B/L & grasses	
			UPF Pouch	10 B/L & grasses	
Total Bahli Range				40	
4	Nankhari	Sholi	Delth	Grass/B.L	
			K/Mundar	5 Grass/B.L	
			Bai/Bahali	5 Grass/B.L	
		Total Nankhari Range		10	
Total Rampur Division				80	
5	Arsu	Kharga	Sarga	10 Grass Sowing & B/L Planting	
			Bergundhar	5 Grass Sowing & B/L Planting	
			Kindia	Nainal	5 Grass Sowing & B/L Planting
				Kimcha	5 Grass Sowing & B/L Planting
			Kharga	Ochhimaw	5 Grass Sowing & B/L Planting
			Tunan	UPF Tunan	10 Grass Sowing & B/L Planting
			Nirmand	Brow	5 Grass Sowing & B/L Planting
				Averi	10 Grass Sowing & B/L Planting
			Arsu	Arsu	1 Grass Sowing
				Buini	1 Grass Sowing
				Palli	2 Grass Sowing
			Sarahan	Sarahan	6 Grass Sowing
				Shamani	5 Grass Sowing
				Tharla	10 Grass Sowing
				Jawagi	5 Grass Sowing
Total Arsu Range				85	
6	Nither	Nither	Moin	5 Leucinia & Robinia	
				Chiuni	10 Leucinia & Robinia
				Kukar Jan	10 Leucinia & Robinia
				Nither	10 Leucinia & Robinia
				Koil	5 Leucinia & Robinia
			Margi	Margi	10 Leucinia & Robinia
				Deoridhar	10 Leucinia & Robinia
				Nore	10 Robinia
				Kaimore	5
Total Nither Range				75	
Total Ani Division				160	
Grand Total Low Lying Pasture				240	

Annexure XV (g)							
Subsidiary Silvicultural Operation							
Sr.No.	Name of Range	Name of Block	Name of Beat	Name of Area	Area in Hac.		
1	Sarahan		Phancha	D.P.F. C-206	15		
				D.P.F. C-205	10		
				Sarpara	D.P.F. C-212 (a)	10	
					D.P.F. C-214	10	
				Total Sarahan Range		45	
2	Rampur	Nogli	Duttnagar	Shangri-Kofta	25		
				Deothi	U.F. Dharanghati	10	
				Munish	C-162	15	
					C-164	20	
					U.F. Sharini	10	
					U.F. Theia	5	
Total Rampur Range		85					
3	Bahli	Nil	Nil	Nil	Nil		
Total Bahli Range					Nil		
4	Nankhari	Sholi	Sholi	C-108 Khamolidhar	10		
				K/Munder	C - 116	30	
				Bai/Bahli	C - 123	30	
				Total Nankhari Range	70		
Total Rampur Division					200		
5	Arsu	Kharga	Sarga	Hunku	5		
				2/1 Barati C-II	5		
				Kindia	Theirugai	9	
					Kimcha	7	
					Sharaige	10	
					Kharga	2/6 Gada Mawa	10
					Tunan	Oddidhar	10
						Dohajan	5
				Nirmand	Pujari	1/3 C-IV Ramgarh	10
				Arsu	Tharvi	2/11 Kaleo C-IV	10
				Sarahan	Sarahan	R/3 Jajut C-II (a)	10
					Shamani	1/7 Darad	10
					Tharla	Parali Girchi	10
	Juagi	1/4 Rehuns	10				
Total Arsu Range		121					
6	Nither	Nither	Sarاهر	Jagerdhar	10		
				Boshla	5		
				Koil	UPFBoshla	15	
				Margi	R/4 Margi Kalon	14	
				Katmore	1/9 Bajauri	15	
Total Nither Range		59					
Total Ani Division					180		
Grand Total SSO					380		

Annexure XVI							
Stabilization of active land slides							
Sr. No.	Name of Range	Name of Block	Name of Beat	Name of Slip/slide	Approximate Anticipated expenditure		
1	Sarahan	Sarahan	Bhaghawat	C-187 F Bari	450000		
				Aksha Bhaghawat	350000		
				Chanach	150000		
				Badrai	125000		
				lothoa	100000		
				Joghari	350000		
				Kaobli	250000		
				Shindhar	250000		
				Koot	350000		
				Total Sarahan Range			
2	Rampur	Rampur	Rampur	Laisa	650000		
				Kalyanpur	150000		
				Nogi	Dansa	Kutu	650000
				Setla	275000		
				Dakolar	550000		
				Deothi	Deothi	Kuhai	450000
				Gandra	200000		
				Kawari	225000		
				Chaki	150000		
				Chiksa	100000		
				-do-	Munish	Barkal	225000
				Roohan	175000		
				Seri	225000		
				Urman	175000		
				-do-	Kashapat	Bainai	175000
				Deornai	175000		
				Darshai	Darshai	175000	
Metalani	350000						
Total Rampur Range					5075000		
3	Bahli			Dalog	400000		
				Chashani	150000		
				Madakhan	200000		
				Lada	200000		
				Kukhi	200000		
				Darkali	200000		
				Marata	150000		
Total Bahli Range					1500000		
4	Nankhari	Sholi	Sholi	Khadech	100000		
				Chakti	50,000		
				Nankhari	C-114	150000	
				K/Munder	C-119	150000	
Total Nankhari Range					450000		
Total Rampur Division						9150000	
5	Arsu	Kharga	Sarga	Tharedhar Nalla	170000		
				2/1 Baras C-II	204000		
				Kinda	Kund Kafi Nalla	204000	
				Kushwa Nalla	204000		
				Kund	170000		
				Shroo	170000		
				Badari	170000		
				Kharga	Ludru Nallah	238000	
				Kajo Khad	240000		
				Tunan	Upper Chatti	238000	

		Nirmand	Brow	Shoga Nallah	204000
				Brow	68000
				Kasholi Khad	800000
				Brow Nallah	170000
				Jagun Nallah	170000
				Ropru Nallah	238000
				Bada Nallah	204000
			Averi	Bal Nallah	204000
			Averi		400000
		Nirmand	Devidhar		68000
		Pujarli	Kades Village		400000
	Arsu	Buini	Jalodi		204000
		Tharvi	Tharvi		102000
		Arsu	Bardidhar		102000
		Palli	Pankwa		102000
		Arsu	Arsu Nalla		204000
		Palli	Summa/ Kasholi /Pranti		476000
		Buini	Shaluri / Buini		340000
		Tharvi	Ragad / Chaniage		340000
	Sarahan	Shamani	Pajenda Nalla		170000
		Sarahan	Chana gad		238000
		Shamani	Nagadi (UPF Shalat)		340000
		Tharta	Dahwa		612000
		Jawagi	Shiligirchi		238000
		Jawagi	Nager Khad		27200
			Total Arsu Range		8229200
6	Nither	Nither	Moin	Chintwa	476000
				Sheli	250000
			Nither	Nintha	204000
				Shila	238000
		Sarahar	Kunish nalla		204000
			Chami		238000
		Koil	Koil Nalla		238000
					175000
		Margi	Margi	Ishwa	204000
				Sharshaha	204000
			Ghatu	Dhadana	170000
			Nore	Manjhwa	204000
		Katmore	Lange		204000
				Bathwa	204000
		Nither	Moin		102000
			Nither		102000
		Sarahar			136000
		Koil			136000
		Margi	Margi		102000
			Ghatu		102000
			Nore		136000
			Katmore		136000
			Total Nither Range	C/wall & P/wall	4165000
			Total Ani Division		12394200
			G.Total		21544200

Treatment of Nallas					Annexure XVII
Sr. No.	Name of Range	Name of Block	Name of Beat	Name of Nallas	Approximate Anticipated Expenditure
1	Sarahan		Koot	Koot Nalla	350000
			Rawancha	Grat Nalla	175000
			Joghari	Brandu Nalla	100000
			Phancha	Phancha Nalla	100000
			Sarpara	Sarapara Nalla	100000
				Gaher Nalla	100000
				Kandhar Nalla	115000
				Suga Nalla	115000
			Kinoo	Thada	100000
				Kinoo	115000
				Gartada	225000
				Manglad Near Badrai	375000
				Total Sarahan Range	1970000
2	Rampur	Rampur	Rampur	Jakho Nalla	175000
				Ropru Nalla	150000
				Rachoi Nalla	125000
				Brelta Nalla	175000
				Kalyanpur Nalla	150000
				Lahsa Nalla	150000
		Nogli	Nogli	Khakrola Nalla	750000
				Bahina Nalla	750000
				Nogli Nalla	100000
				Serti Nalla	115000
				Power House Nalla	375000
				Uroo Nallas	135000
				Shingla Nalla	135000
			Dansa	Jaguni Nalla	750000
				Sukigad Nalla	275000
				Chadeni nalla	100000
				Keshog Nalla	100000
			Dutnagar	Palanu Nalla	100000
				Khaitu Nalla	135000
		Deothi	Deothi	Kamchoda Nalla	115000
				Bhati Nalla	115000
				Gandla Nalla	115000
				Pataina Nalla	115000
				Deothi Nalla	275000
			Munish	Munish Nalla	75000
				Dandol Nalla	75000
				Kaladi Nalla	100000
				Munish Bahi Nalla	175000
				Matena Nalla	135000
				Jogni Nalla	100000
			Kashapat	Khatal Nalla	135000
				Bai Nalla	135000
			Darshal	Darshal Nalla	50000
				Matalni Nalla	50000
				Total Rampur Range	6510000
3	Bahli	Bahli		Nehra	100000
				NagaSaur to Shally	100000
				Sosali	70000
				Dawala	100000
				Majheothi	80000

	Nirmand	Brow	Jagatkhana Nalla	1350000
			Bagini Nalla	500000
		Nirmand	Chasti Nalla	500000
			Deodhank Nalla	500000
			Bai Nalla	900000
			Ugar Nalla	900000
			Shishwa Nalla	600000
			Shaur Nalla	500000
	Arsu	Buni	Pashadi Nalla	600000
			Buni Nalla	500000
			Shaluri Nalla	675000
		Tharvi	Kamcha Nalla	600000
		Arsu	Koshoni Nalla	450000
		Pali	Suma Nalla	800000
			Greda Nalla	760000
			Dogni Nalla	700000
			Basli Nalla	800000
		Tharla	Badari Nalla	600000
		Juagi	Juagi Nalla	600000
	Total Arsu Range			17,335,000
5	Nither	Nither	Moin	250000
			Dokhan (Moin)	325000
			(ii) Moin Nalla	400000
			(iii) Aflu Nalla	575,000
			(iv) Chinthwa	575,000
			Dhanan Nalla	600000
		Neether	(i) Shilla Nalla	600000
			(ii) Sori Nalla	600000
		Saraher	(i) Kunish	575,000
			(ii) Chorani	600000
			(iii) KulaDhartu	600000
		Koil	Koil Nalla	600000
	Margi	Margi	Ishwa Nalla	750000
			Katal Nalla	250,000
		Ghatu	Shershaha	550000
			Naigad	400000
		Ghatu	Batkiol Nalla	250000
			Jorla Nalla	275,000
			Kuni Nalla	225000
			Chhuada Nalla	200000
			Surar/Dapti Nalla	200000
		Nove	Manjwa Nalla	200000
				250000
		Katmore	Bathwa	325000
			Gai age	450000
	Total Nither Range			2000000
	Total Ani Division			10225000
	Grand Total			27,560,000
				41,680,000

Road Side Erosion Control						Annexure XVIII
Sr. No.	Name of Range	Name of Block	Name of Beat	Name of the Road	Length of Road (in Km)	Approximate Anticipated expenditure
1	Sarahan		Kaubil	Katolu bridge to Phancha	3.6	65000
			Kaubil	Ganvi to Lobana Sadana Road	5.125	30000
			Rawancha	Ganvi to Kiao Road	3.5	30000
			Total Sarahan Range			
2	Rampur	Rampur	Rampur	Kalyanpur N.H.22	200 mtr.	55000
		Nogli	Duttanagar	Talai N.H.22	250 mtr.	60000
		Total Rampur Range				
3	Bahli			Bahli to Sungr	500 mtr.	85000
				Bhadrash to Brandli	300 mtr.	35000
			Total Bahli Range			
4	Nankhari	Sholi	Delath	Pandadhar-Nankhari	200 mtr.	30,000
				do	200 mtr.	30,000
				Ninoo	200 mtr.	30,000
			Total Nankhari Range			
Total Rampur Division						450,000
5	Arsu	Kharga	Kindla	Jhakra Jhulla to Kazu Khad	4	62000
			Kharga	Kazu Khad to Kuni Khad	4	60000
				Chali to Jagath Khana	4	50000
		Nirmand	Brow	Brow to Bazirbawi Road	3	60000
				Brow to Poshna	8	30000
		Sarahan	Averi	Averi Ghatu & Averi Bail road	5	62000
			Sarahan	B/Pul to Chanai Gad	4	40000
			Shamani	B/Pul to Khober	3	30000
			Tharla	B/Pul to Chhaleer	2	35000
		Total Arsu Range				
6	Nither	Margi	Ghatu	Avera to Ghatu Road	1	70000
		Nither	Moin	Nirth pul to Moin Road	2	90000
			Koil	Koil to Shanha	2	85000
Total Nither Range					245000	
Total Ani Division						674000
Grand Total						1,124,000

Avenue Plantation And Landscaping					Annexure XIX
Sr. No.	Name of Range	Name of Block	Name of Beat	Name of Area	Approximate Anticipated expenditure
1	Sarahan	Nil	Nil	Nil	Nil
2	Rampur	Rampur Nogli	Rampur Nogli	Kalyanpur Dakolar	60000 60000
Total Rampur Range					120000
3	Bahli		Nil	Nil	Nil
4	Nankhari		Nil	Nil	Nil
Total Rampur Division					120000
5	Arsu	Kharga Nirmand	Kindla Kharga Aveni Nirmand	Jhakhri Jhulla to KazuKhad Kazu Khad to Kuni Khad Aveni Bail Road Devdhank Temple Path Nirmand Road to Bail Stangidhar, Chamboo School Compound	
		Arsu	Arsu	Tikkari kenchi to Arsu	
		Palli	Palli	Dhauri Temple Area	
		Sarahan	Sarahan	Bagipul to Sarahan Road	
Total Arsu Range					156000
6	Nither	Nither Margi	Sarاهر Margi	latanda Deoridhar	
Total Nither Range					81600
Total Ani Division					237600
Grand Total					357600

Forest Infrastructure Development							Annexure XX (a)		
Repair of Forest path									
Sr.No.	Name of Range	Name of Block	Name of Beat	Name of Path	Length of Path in KM	Appro. Anticipated expenditure			
1	Sarahan		Koot	Koot to Bajwidhar	8	25000			
			Jaghori	Jaghori to Bajwidhar	4	20000			
			Sarpara	Suga to Gamughati	12	25000			
			Phancha	Gamughati to Phancha	10	25000			
			Jaghori	Phancha to Jaghori	10	80000			
				Jaghori to Chungidhar	9	40000			
				Chungidhar to Khanidhar	5	25000			
				Khanidhar to Kinfee	12	80000			
Total Sarahan Range					70	320000			
2	Rampur	Deothi	Deothi/Munish	Munish to daranghati	12	80000			
Total Rampur Range					12	80000			
3	Bahli			Sungri to Surad	16	80000			
				Tacklech to Darkali	19	70000			
				Bahli to Surad	14	50000			
				Surad to Khamadi	12	50000			
			Total Bahli Range					58	250000
4	Nankhari	Nankhari	Nankhari/K/munder/Bai/Bahli	B/Path	16	50000			
				Bai/Bahli	B/Path (Bahli to Khadraia)	5	20000		
				Sholi	B/Path Khanog to Nankhari	7	35000		
			Total Nankhari					28	105000
Total Rampur Division						755000			
5	Arsu	Kharga	Sarga		21	80,000			
			Kindia	Jakri jula to Sarsha	18	80,000			
			Kharga		15	60,000			
			Tunan	Chati to Oddidhar	9	35,000			
				Prantla to Tunan					
			Nirmand	Brow	Randal to Nobag	3	15,000		
				Nirmand	Bava to Menda	4	20,000		
						4	20,000		
				Arsu	Palli	Prantla to Chhaniage	12	50,000	
			Total Arsu Range					86	360,000
6	Nither	Nither	Moin	Nither to Bagouri	3	75,000			
				Shilla to Sangwa	4	60,000			
			Sarsher	Shamoh to Kaidhar	3	40,000			
			Koil	Brogrri to Nandi	2	30,000			
				1/15 LoteKayon	2.865	25,000			
			Margi	Margi	kaidhar to Karkanibag	12	120000		
				Katmore	Karkanibag to Charanda	4	75,000		
					Charanda to Dard	3.5	70,000		
			Total Nither Range					34.365	495,000
			Total Ani Division						855,000
Grand Total						1,610,000			

Forest Infrastructure Development								
Repair/cost of operational buildings								
Sr. No.	Name of Range	Name of Block	Name of Beat	Type of building	Appx. Amount			
1	Sarahan		Koot	Repair of Ihut Koot	40000			
				Repair of Ihut Jaghori	15000			
				1/2 Const. of Kitchen	45000			
				Repair of B.O qtr. Jaghori	60000			
				Repair of F.G/hut jaghori	25000			
				Phancha	Repair of F.R.H. Phancha	85000		
				Sarpara	Repair of Ihut Sarpara	30000		
				Total Sarahan Range				300000
2	Rampur	Deothi	Deothi	Repair to B.O Qtr. Deothi	40000			
				Repair to Beatgard Qtr. Nogli	30000			
				Repair to B.O Qtr. Nogli	65000			
				Construction of Community Centre	2000000			
				Repair to F.R.N. Nogli	150000			
				Rampur	Rampur	Repair of Compand / Qtrs. in Forest Colony pipty	200000	
Total Rampur Range				2485000				
3	Bahli			F.G. Hut Bahli	30000			
				F.G. Hut Taklech	35000			
				F.R.H. Surad	80000			
				F.G. Hut Surad	40000			
				B.O. Qtr. Bahli	50000			
Total Bahli Range				235000				
4	Nankhari	Sholi	Sholi	F.G. Hut Sholi	60000			
				Chakti	F.G. Hut Chakti	60000		
				Nankhari	Bai/Bahli	I.G. Hut	55000	
				Nankhari	Nankhari	F.G. Hut	55000	
Total Nankhari Range				230000				
Total Rampur				3250000				
5	Ansu	Kharga	Sarga	Repair of Ihut Sarga	150000			
				FG Qtr. At Sarga	30000			
				kharga	Ihut at kharga	80000		
					F.G/B.O. Qtr. at Kharga	80000		
				Tunan	F.G/hut at Tunan	60000		
				Nirmand	Brow	F.G. Qtr & Resthouse at Brow	100000	
					Pujari	G/hut at Chunagi	40000	
					Nirmand	B.O. Qtr. F.G/hut & Mali/hut	180000	
						R.O. Office at Nirmand	90000	
						R.O. Residence at Nirmand	80000	
					Ansu	Ansu	B.O. Qtr. F.G/hut & Mali/hut	150000
							F.G. hut Tharvi	25000
					Sarahan	Sarahan	F.G. hut at sarahan	50000
						Shamani	F.G. hut at Shamani (Sikkan)	50000
		Tharla	Ihut at Samatan (Singh Gad)	125000				
			F.G hut at Tharla	90000				
Total Ansu Range				1380000				
6	Nither	Nither	Nither	Repair of F.G/hut	30000			
				Repair of B.O. Qtr.	50000			
				Repair of Range Office Residence.	80000			
				Repair of FRH. Neether	40000			
				Repair of Chokidar Qtr & Peon Qtr.	40000			
				Sarahr	F.G/hut	25000		
				Koil	F.G/hut	25000		
				Margi	Margi	Repair of Inspection hut	70000	
						F.G. Qtr.	25000	
					Ghatu	F.G/hut	25000	
					Katmore	Maintenece FG/hut	60000	
				Total Nither Range				470000
Total Ani Division				1850000				
Total				5100000				

Annexure XX (c)				
Construction of Farm ponds				
Sr.No.	Name of Range	Name of Block	No. of Farm Ponds	Approximate Anticipat
1	Sarahan	Phancha	3 No	150000
		Sarpara	2 No	
		Sarahan	1 No	
		Total Sarahan Range		150000
2	Rampur	Deothi	1 No	75000
		Nogli	2 No	
		Total Rampur Range		75000
3	Bahli		0	0
	Total Bahli Range			0
4	Nankhari	Sholi	Koffer=1No.	25000
			Karalta=1No.	25000
			Chharai=1No.	25000
			Thaily=1 No.	25000
		Total Nankhari Range		100000
	Total Rampur		13 No.	325000
5	Arsu	Kharga	2 No.	50000
		Nirmand	4 No.	100000
		Arsu	3 No.	75000
		Sarahan	3 No.	75000
		Total Arsu Range		12 No.
6	Nither		3 No.	75000
		Margi	3 No.	75000
		Total Arsu Range		6 Nos.
	Total Ani Division		18 No.	450000
	G. Total		31 No.	775000

Soil & Water Harvesting Structure						
Sr. No.	Name of Range	Name of Block	Name of Beat	Name of Village	Type of Structure	Approx. Amount
1	Sarahan	Nil	Nil	Nil	Nil	0
Total Sarahan Range						0
2	Rampur	Nogli	Nogli	Shingla	Harvesting Structure	150000
			Dansa	Batuna	Harvesting Structure	150000
			Dutnagar	Neri	Harvesting Structure	150000
				Khanoili	Harvesting Structure	150000
Total Rampur Range						600000
3	Bahli	Nil	Nil	Nil	Nil	0
Total Bahli Range						
4	Nankhari	Sholi	Sholi	Shrog	Harvesting Structure	150000
			Chakti	Thali	Harvesting Structure	150000
		Nankhari	Bai/Bahli	Bahli	Harvesting Structure	150000
				Pandadhar	Harvesting Structure	150000
Total Nankhari Range						600000
Total Rampur Division						1200000
5	Arsu	Nirmand	Avari	Chilla Nai II	Harvesting Structure	150000
			Nirmand	Nirmand	Harvesting Structure	150000
			Pujarli	Kosh	Harvesting Structure	150000
		Arsu	Buini	Kote	Harvesting Structure	150000
Total Arsu Range						600000
6	Nither	Nither	Moin	Khobani khad	Harvesting Structure	150000
				Moinnafa	Harvesting Structure	150000
			Nither	Bajouri	Harvesting Structure	150000
			Koil	Koil	Harvesting Structure	150000
		Margi	Margi	Ghathu/Bashadnal	Harvesting Structure	150000
Total Nither Range						750,000
Total Ani Division						1,350,000
G.Total						2,550,000

Annexure XXI (a)						
RURAL INFRASTRUCTURE DEVELOPMENT						
VILLAGE PONDS AND TANKS						
Sr. No.	Name of Range	Name of Block	Name of Beat	Name of Village	Number of Pond / Tank	Approx. Amount
1	Sarahan	Sarahan		Kiao	1	35000
				Labana	1	35000
				Kandhar	1	35000
				Total Sarahan Range		105000
2	Rampur	Nogli	Nogli	Shingla	1	35000
			Dansa	Makrol	1	35000
			Outnagar	Khanoli	1	35000
				Takai	1	35000
			Nogli	Nogli	1	35000
		Rampur	Rampur	Fainidhar	1	35000
		Deothi	Deothi	Maghali	1	35000
				Chikasa	1	35000
				Kuhul	1	35000
			Kashapat	San	1	35000
				Puna	1	35000
		Rampur	Rampur	Kandi	1	35000
				Total Rampur Range		420000
3	Bahli	Bahli	Bahli	Narha	1	35000
			Takletch	Barshol-Seri	1	35000
				Total Bahli Range		70000
4	Nankhari	Sholi	Sholi	Sholi	1	35000
				Chekti	1	35000
				Thaily	1	35000
				Total Nankhari Range		105000
				Total Rampur Division		700000
5	Arsu	Kharga	Kindia	Kindia	1	35000
			Kharga	Tandi	1	35000
			Tunah	Gaon Bil	1	35000
		Nirmand	Pujari	Shattaidhar	1	35000
				Bawa	1	35000
				Kathanda	1	35000
				Chamboo	1	35000
		Arsu	Tharvi	Jawa	1	35000
			Pali	Kasholi	1	35000
			Arsu	Tangoor	1	35000
			Buini	Shalog	1	35000
		Sarahan	Jawagi	Tinder	1	35000
			Shamani	Shalat	1	35000
				Total Arsu Range		455000
6	Nither	Nither	Moin	Chiuri	1	35000
				Anas	1	35000
			Neether	Khedvecha	1	35000
			Sarahr	Naluage	1	35000
			Koil	Dagri	1	35000
				Koil	1	35000
		Margi	Margi	Laral	1	35000
			Ghatu	Noni	1	35000
			Katmore	Kanda	1	35000
				Total Nither Range		315000
				Total Ani Division		770000
				G.Total		1470000

REPAIR OF SPRINGS, BAWARI & OTHER WATER SOURCES						
Sr. No.	Name of Range	Name of Block	Name of Beat	Name of Village	Name of Structure	Approx. Amount
1	Sarahan		Rawancha	Kao	Bawari	20,000
			Kao-Bell	Labana	Bawan	20,000
				Kandhar	Bawan	20,000
			Sarahan	Rajbhai Bathara	Bawari	20,000
				Dheu	Bawari	20,000
			Bhagawat	Kinoo	Bawari	20,000
				Bari	Bawari	20,000
			Total Sarahan Range			140,000
2	Rampur	Nogli	Nogli	Nagnal	Bawari	20,000
				Thansal	Bawari	20,000
				Kumsu	Bawari	20,000
				Kareri	Bawari	20,000
				Selra	Bawari	20,000
				Masama	Bawari	20,000
				Kamlahu	Bawari	20,000
				Barawali		20,000
				Kalna	Bawari	20,000
		Nogli	Dansa	Aanan Makroti	Bawari	20,000
				RajBaiSharan	Bawari	20,000
				Sahai	Bawari	20,000
			Outnagar	Khanoli	Bawari	20,000
		Deothi	Deothi	Kamisari	Bawari	20,000
				Jaghot	Bawari	20,000
				Deothi	Bawari	20,000
				Soom	Bawari	20,000
				Rohoo	Bawan	20,000
				Khod Bai	Bawan	20,000
				Chikaa	Bawari	20,000
				Kuhal	Bawan	20,000
		Rampur	Rampur	Kandi	Bawari	20,000
			Total Rampur Range			440,000
3	Bahli	Bahli	Bahli	Nehra, Bahali	Bawari	20,000
				Dialog, Devnagar	Bawari	20,000
			Jarashi	Jarashi	Bawari	20,000
			Surad	Lalpani	Bawan	20,000
			Khamadi	Dhansha	Bawari	20,000
				Khamadi	Bawan	20,000
			Bunthal	Bunthal	Bawari	20,000
				Majhauthi	Bawari	20,000
		Takech	Takech	Nalog	Bawan	20,000
				Seri, Majhali	Bawari	20,000
			Theda	Devi-dhar	Bawari	20,000
				Bhatanawal	Bawan	20,000
			Darkali	Marala	Bawan	20,000
				Mandli	Bawan	20,000
			Total Bahli Range			280,000
4	Nankhari	Sholi	Sholi	Sholi	Bawari	20,000
				Katar, Louhs	Bawari	20,000
			Chakti	Jhingnoo	Bawari	20,000
		Nankhari	Nankhari	Kandloo	Bawari	20,000
			Bai/Bahli	Bai/Bahli	Bawari	20,000
				Tangri, Karoli	Bawari	20,000
		Nankhari	Delath	Nawan (Shane-Bai)	Bawari	20,000
			Total Nankhari			140,000
			Total Rampur Division			1,000,000

5	Arsu	Kharga	Sarga	Barijan	Bawari	20,000
				Mohali	Khul	80,000
			Kharga	Kharga	Bawari	20,000
			Tunan	Thachwa	Khul	80,000
				Kasholi/Pali/Gaonbil	Bawari	60,000
		Nirmand	Nirmand	Newala	Shamanki Diber to Newala Khul	65,000
				Koesge	Bawari	20,000
				Chambu	-do-	20,000
				Sabour	-do-	20,000
		Arsu	Arsu	Natala	-do-	20,000
			Pali	Dogri	-do-	20,000
				Bogabaa	-do-	20,000
				Tharvi	-do-	20,000
		Sarahan	Sarahan	Bagipul	Bawari	20,000
		Total Arsu Range			Total	485,000
6	Nither	Nither	Moin	Shaini	Affukuhai	120000
				Katoge	Kuhul	40000
				Nagage	Bawari	20000
			Nither	Jhali	Bawari	20000
			Saraher	Saraher	Bawari	20000
			Koli	Sharot	Kuhul	80000
		Margi	Margi	Margi	Bawari	20000
				Sharshaha	Bawari	20000
				Dumat	Bawari	20000
				Dharamurgi	Bawari	20000
			Ghatu	Shili Ghutu	Bawari	20000
			Katmore	Lalpani	Water Spring	20000
				Nogalnali	Water Source/Spring	20000
				Lange	Kuhul	75000
		Total Nither Range				515000
		Total Ani Division				1,000,000
		Grand Total				2,000,000

			Darshal	Darshal	Darshal to Kim	50000	
			Kashapat	Seri	Sari to Dammi	50000	
				Dandol	dandol to Munish	50000	
				kasha	Chabalidhar to Kasha	50000	
				Pat	Pat to Kasha	50000	
			Munish	Patana	Patana to Thala	50000	
				Munish Bahli	M/Bahli to Thala	50000	
				Anurakashi	Anurakashi to Kareri	40000	
			Total Rampur Range			1,730,000	
				Batheda	Chalari to Batheda	40000	
				Beunthal	Beunthal Vill	40000	
				Surd	F R H. Surd to Dhar Moter Road	40000	
				Chowka	Chowka Vill.	40000	
				Bashali	Bashali Vill	35000	
				Sari	Sari Vill	35000	
			Total Bahli Range			230000	
				Radaina	Radaina-Dharagla	40000	
				Sholi	Sholi Village Path	50000	
				Chakli	Dadara/Thaily	50000	
				Delath	Nawan Vill part I	100000	
					Nawan Vill part II	100000	
				Nankhari	Nankhari	60000	
				K/Munder	Kungali	60000	
				Bai/Bahli	Bahli	60000	
					Karoli	60000	
			Total Nankhari Range			580000	
			Total Rampur Division			3,285,000	
				Sarga	Smej to Sarga	90,000	
				Kindla	Sharunal to Kindla	80000	
				Kharga	Tandi	90,000	
				Tunan	Ganowbil	70,000	
				Averi	Bali to pipaldhar	60,000	
					Shataldhar	70,000	
				Pujari	Baneoti	40,000	
				Nirmand	Chambu	15,000	
				Arsu	Arsu	50000	
					Matta	Arsu to Shoch/Matta	40000
				Buini	Shil	70000	
				Tharvi	Dhar	70000	
				Pali	Nagerh	110000	
					Chunagai	110000	
					Ksholi to pankwa	110000	
					Damadi to Jojabawa	110000	
				Sarahan	Sarahan	40,000	
				Shamani	Tharvi	40,000	
				Tharla	Bhagir	40,000	
				Juagi	Juagi	40,000	
			Total Arsu Range			1,345,000	
				Moin	Palapul to Sanah	200,000	
					Moin Jhula to Moin	50,000	
					Anas to Cremotorim	50,000	
					Moin to Neether	90,000	
				Koil	Koil to Roprinal	70,000	
					Ropru	40,000	
				Margi	Ishwa	25,000	
					Margi	40,000	
				Katmore	Urtu	50,000	
					Kanda to Koita	40,000	
					Kanda to Katmor	50,000	
					Sarda to Urtu	25,000	
			Total Nither Range			730,000	
			Total Ani Division			2,075,000	
			Grand Total			5,360,000	

CONSTRUCTION OF FOOT BRIDGE						
Sr.No.	Name of Range	Name of Block	Name of Beat	Name of Village	Name of Foot Bridge	Approx. Amount
1	Sarahan			Smaje	Samej	
				Suga	Sangupul	70000
				Garvi	Barakhad	70000
				Nanti	Nanti bridge	70000
	Total Sarahan Range					280000
2	Rampur	Deothi	Deothi	Anu	Anu khad	90000
				Deothi	Deothi khad	90000
				Letala	Letala khad	90000
	Total Rampur Range					270000
3	Bahli			Batheda	Over Nogli khad near Batheda	90000
				Surd Khamadi	On Surd Khamadi B/path	90000
	Total Bahli Range					180000
4	Nankhari	Sholi	Chakti	Chakti (Khumu)	Khumu foot bridge	90000
		Nankhari	K/Munder	Kungal-Kunder	Kungal-Munder	90000
			Bal/Bahli	Bando Khad	Bando Khad	90000
	Total Nankhari Range					270000
	Total Rampur Division					1000000
5	Arso	Kharga	Sarga	Tharedhar	Forioligad	80000
			Kharga	Dogni	Dogni Khad	40000
				Muchka	Muchka Khad	40000
			Nirmand	Nirmand	Repair of Nardi Bridge	40000
					Repair of Kassholi Bridge	80000
		Arso	Buini	Khrai	Khrai to Kober	90000
			Tharvi	Nagerh	Nagad Bridge	50000
			Palli	Bada	Bada	50000
				Boong	Boong	50000
		Sarahan	Sarahan	Sharni	Sharni Bridge	50000
				Chanai	Chanai gad	50000
			Shamani	Bijli	Bijli Khad	50000
				Ishwa	Ishwa Nalla	50000
			Tharla	Chhaleer	Chhaleer Nalla	50000
			Juagi	Kurpan	Kurpan Khad	80000
	Total Arso Range					850,000
6	Nither	Nither	Moin	Moin	Affu Foot/bridge	90,000
			-do-	Shini	Ropeway over river satluj	150,000
			Neether	Shanha	Bnjhar	90000
		Margi	Margi	Braula	Braulanala F/Bridge	90,000
				Saraini	Nagala F/Bridge	80,000
			Katmore	Banogalang	Banogalang Bridge	150,000
	Total Nither Range					650,000
	Total Ani Division					1,500,000
	Grand Total					2,500,000

Annexure XXII

Treatment of Private Land					
Sr.No.	Name of Range	Name of Block	Name of Beat	Name of Village	Approximate Anticipated expenditure
1	Sarahan	Nil	Nil	Nil	0
					0
	Total Sarahan Range				0
2	Rampur	Nogli	Nogli	Kursu Deveta Sahib	500000
				Lakshami Narain	0
	Total Rampur Range				500000
3	Bahli	Nil	Nil	Nil	0
	Total Bahli Range				0
4	Nankhari	Nil	Nil	Nil	0
	Total Nankhari Range				0
	Total Rampur Division				500000
5	Arsu	Arsu	Arsu	Shanu	35000
				Doba	35000
				Shil	35000
				Ksholi	35000
			Kindia	Dogri	35000
			Palli	Pranthia	35000
		Nirmand	Bail	Dharopa	100000
				Kasholi	75000
				Jagatkhana	75000
		Sarahan	Shamani	Nagadi	50000
	Total Arsu Range				510000
6	Nither	Nither	Moin	Moin	200,000
			Nither	Nither	110,000
			Sarsher	Charani	30,000
			Koil	Koil	30,000
		Margi	Margi	Ishwa	30,000
			Ghatu	Sandawar	30,000
			Nore	Rato	30,000
			Katmore	Lang I & II	30,000
	Total Nither Range				490,000
	Total Ani Division				1,000,000
	Grand Total				1,500,000

No. Fuel Saving Devices Construction of Crematoria						
Sr.No.	Name of Range	Name of Block	Name of Beat	Name of Village	Qty.	Approximate Anticipated expenditure
1	Sarahan	Sarahan	Sarahan	Bathara	1	75000
	Total Sarahan Range					75000
2	Rampur	Rampur	Nogli	Nogli	1	75000
				Shaneri	1	75000
			Dattnagar	Khanoli	1	75000
	Total Rampur Division					225,000
3	Bahli		Devnagar	Devnagar	1	75000
	Total Bahli Range					75,000
4	Nankhari	Sholi	Chakti	Chakti	1	75000
			Delath	Barach(Naunal)	1	75000
			Delath	Nawan	1	75000
	Total Nankhari					225,000
	Total Rampur Division					600,000
		Nirmand	Nirmand	Dropa (NMD)	1	75000
			Averi	Averi	1	75000
			Brow	Brow	1	75000
				Jagatkhana	1	75000
				Ksholi	1	75000
		Arsu	Arsu	Arsu	1	75000
			Buini	Buini	1	75000
			Palli	Palli	1	75000
		Sarahan	Sarahan	Sarahan	1	75000
	Total Arsu Range					675000
6	Nither	Nither	Moin	Moin Jhula	1	75000
			Moin	Shani	1	75000
			Nither	Jhalli	1	75000
			Ghatu	Noni	1	75000
	Total Nither Range					300,000
	Total Ani Division					975,000
	Grand Total					1,575,000

Annexure XXIII (b)				
Distribution of Pressure-Cooker / Biogas Chullahes				
Sr.No.	Name of Range	Name of Block	Name of Beat	Approximate Anticipated expenditure
1	Sarahan	Sarahan	Bhaghawat	10000
			Sarapara	10000
	Total Sarahan Range			20000
2	Rampur	Rampur	Sanathi	10000
		Nogli	Dansa	10000
		Deothi	Deothi	10000
			Munish	10000
	Total Rampur Range			40000
3	Bahli	Taklech	Taklech	10000
			Beunthal	10000
	Total Bahli Range			20000
4	Nankhari	Sholi	Delath	10000
	Total Nankhari Range			10000
	Total Rampur Division			90000
5	Arsu	Kharga	Sarga	10000
			Kharga	10000
			Tunan	10000
		Nirmand	Nirmand	10000
			Averi	10000
			Brow	10000
				10000
			Pujari	10000
		Arsu	Arsu	10000
		Sarahan	Shamani	10000
	Total Arsu Range			100,000
6	Nither	Nither	Moin	10000
			Koil	10000
		Margi	Nore	10000
			Katmore	10000
	Total Nither Range			40,000
	Total Ani Division			140,000
	Grand Total			230,000

CONSTRUCTION OF RAIN WATER HARVESTING STRUCTURE					
Sr.No.	Name of Range	Name of Block	Name of Beat	Name of Village	Approximate Anticipated expenditure
1	Sarahan	Nil	Nil	Nil	0
	Total Sarahan Range				0
2	Rampur	Nogli	Nogli	Umri	100000
	Total Rampur Range				100000
3	Bahli			Sobali	100000
				Shangral	100000
				Devnagar	100000
				Ladanal	100000
				Kalada	100000
	Total Bahli Range				500000
4	Nankhari	Sholi	Sholi	Sholi	100000
			Chakti	ihinjhnoo	100000
		Nankhan	Bai/Bahli	Bai	100000
	Total Nankhari Range				300000
	Total Rampur Division				900000
5	Arsu	Nirmand	Nirmand	Nirmand	125000
			Pujari	Kosh	125000
			Averi	Chila Nalla	125000
	Total Arsu Range				375000
6	Nither	Nither	Moin	Moin	125000
			Katmore	Bathwa	125000
	Total Nither Range				250,000
	Total Ani Division				625,000
	Grand Total				1,525,000

FOREST PROTECTION							
CLEARANCE OF FIRE LINE							
Sr. No.	Name of Range	Name of Block	Name of Beat	Name of Fire Line	Length of Fire Line in Km.	Approx. Amount	
1	Sarahan	Jaghori	Rawancha	C-194 to C-195 along Chalandi ridge	4.5		
				C198(a) to C198(b)	2.5		
				C198(b) to C198(c)	1.5		
				C190(a) along ridge	3		
		Sarahan	Badhal	Maneotidhar upto 10000 height.	5		
					Gopalpur	Gopelpur	Phaneotidhar fire line
2	Rampur	Rampur	Pashada	Tauni UF-II	2.5		
3	Bahli	Bahli	Kaleda	Natal to Kaleda	3.5		
				Taklech	Taklech	Taklech to Agadhar	4
4	Nankhari	Nankhari	Punan	Badhrai C-99 Punan	1		
				Nankhari - Thaily	1		
				C-116 Punan to C-118 Kungai munder	1		
				Total of Rampur Division			31.5
5	Arsu	Kharga	Sarga	2/1 Barati	4		
				Kindla	2/3 Sianunai	3	
				Kharga	1/1 Tikker	2	
		Nirmand	Nirmand	Brow	UPF Shataidhar	1.5	
					UPF Brow	1.5	
					Pujarli	1/3 R. G. Kandi	3
		Arsu	Tharvi	Palli	Kot - 3	2	
					UPF Pankwa	1.5	
		Sarahan	Shamani	Tharia	1/7 Drad	2	
					2/16 Marya	1.5	
					Juagi	2/12 Balacha	3
6	Nither	Margi	Katmore	1/8 Lohar	1		
				Total of Ani Division			26
G. Total					57.5	95,000	

Annexure-XXV (b)						
ENGAGEMENT OF FIRE WATCHERS & FIRE FIGHTER SQUADS						
Sr.No.	Name of of Range	Name of Block	No. of Fire Watcher Required	Amount Required	Amount for Fire Fighting Squads	Total Amount
1	Sarahan		1	14000		14000
2	Rampur		2	28000		28000
3	Bahli	Bahli	2	28000		28000
4	Nankhari	Nankhari	1	14000		14000
					Total Amount for fire fighting squads	300000 300000
					Total of Rampur Division	84000 300000 384000
5	Arsu	Kharga	2	28000		28000
		Nirmand	2	28000		28000
		Arsu	2	28000		28000
		Sarahan	2	28000		28000
		Total		112000		112000
6	Nither	Nither	2	28000		28000
		Margi	2	28000		28000
		Total		56000		56000
					Total Amount for fire fighting squads	300000 300000
					Total of Ani Division	168000 300000 468000
					Grand Total	252000 600000 852000

Annexure-XXV (c)

PURCHASE OF FIRE FIGHTING EQUIPMENTS			
Sr. No.	Name of Division	Name of Articals	Amount
1	Rampur	Rakers	
		Binoculars	
		Fire fender	
		Tourch	
		Emergency Lights	
		Fire proof clothing	
		Helmet	
		Total	
2	Ani	Rakers	
		Binoculars	
		Fire fender	
		Tourch	
		Emergency Lights	
		Fire proof clothing	
		Helmet	
		Total	
	Grand Total		150,000

Annexure-XXV (d)

CONSTRUCTION OF WATCH TOWER				
Sr. No.	Name of Division	Location	No. of Watch Tower	Amount Required
1	Rampur	Baltidhar	1	175500
		Total		175500
2	Ani	Chunagai	1	175500
		Total		175500
		Grand Total		351000

Annexure-XXV (e)

CONSTRUCTION OF GANG HUT		
Sr.No.	Name of Division	Amount
1	Rampur	400000
		400000
2	Ani	400000
		400000
	G. Total	800000

Annexure-XXV (f)

IMPROVEMENT OF COMMUNICATION SYSTEM			
Sr.No.	Name of Division	Type of Instrument	Amount Required
1	Rampur	Wireless	150000
		Mobile Phone	
		Total	150000
2	Ani	Wireless	150000
		Total	150000
		Grand Total	300000

Component	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	Total
B) Construction of Fod Biogas	0	370000	760000	980000	370000	0	0	0	0	0	0	2500000
Total	0	3910000	2890000	2465000	2110000	865000	0	0	0	0	0	11330000
B. Treatment of Private Land	0	6000000	9500000	13000000	21000000	0	0	0	0	0	0	15000000
10. Fuel Saving Device	0	6000000	3750000	3750000	2250000	0	0	0	0	0	0	15750000
a) Clink of Crematoria	0	1000000	900000	400000	0	0	0	0	0	0	0	2300000
b) Distribution of Pressure-Cooker/BioGas Chulashes	0	7000000	4850000	4150000	2250000	0	0	0	0	0	0	18050000
Total	0	6000000	9500000	3250000	0	0	0	0	0	0	0	15750000
11. Rain water harvesting	0	5500000	6500000	3250000	0	0	0	0	0	0	0	15250000
12. Wild Life Improvement	0	300000	300000	300000	300000	300000	0	0	0	0	0	1500000
A) INTENSIVE MANAGEMENT OF WILDLIFE	0	0	1250000	0	0	0	0	0	0	0	0	1250000
B) PROTECTION OF FOREST AND WILDLIFE	0	0	0	1500000	0	0	0	0	0	0	0	1500000
a) Repair of Existing Boundary Pillars	0	0	1000000	1000000	0	0	0	0	0	0	0	2000000
b) Improvement of Wireless Communication System	0	0	0	0	0	0	0	0	0	0	0	0
c) Equipment i.e. Fire Fighting	0	0	0	0	0	0	0	0	0	0	0	0
d) Electric Network	0	0	0	0	0	0	0	0	0	0	0	0
e) VETERINARY FACILITIES / Vaccination of Domestic Cattle	0	400000	400000	400000	400000	400000	0	0	0	0	0	2000000
f) REWARD INCENTIVES TO THE INFORMERS	0	400000	400000	400000	300000	0	0	0	0	0	0	1500000
g) ANTI POACHING ACTIVITIES	0	400000	400000	400000	400000	0	0	0	0	0	0	2000000
h) HABITAT IMPROVEMENT	0	0	1750000	2000000	1750000	1000000	0	0	0	0	0	6500000
i) NATURAL AWARENESS CAMP	0	400000	400000	400000	400000	0	0	0	0	0	0	2000000
ii) Wild Life Census Operations in Clusade protected areas.	0	0	0	0	400000	400000	0	0	0	0	0	2000000
iii) Sign and Slogan Boards (Publicity)	0	0	0	2000000	0	0	0	0	0	0	0	2000000
B) ECO DEVELOPMENT ACTIVITIES	0	0	800000	3000000	0	0	0	0	0	0	0	9000000
a) Village Support Activities / housing sanitation etc.	0	0	3000000	4500000	3000000	2000000	0	0	0	0	0	12500000
b) Development of NTFF	0	1750000	2000000	0	0	0	0	0	0	0	0	3750000
c) Eco Tourism Activities	0	0	500000	500000	500000	500000	0	0	0	0	0	2000000
d) Income Generation Activities (Vermi Composting etc.)	0	0	0	2000000	2000000	1000000	0	0	0	0	0	6000000
Total	0	3450000	12200000	16200000	9050000	6000000	0	0	0	0	0	47100000
13. Forest Protection	0	200000	400000	550000	0	0	0	0	0	0	0	950000
A) Clearance of Fire Line	0	0	210000	210000	210000	210000	0	0	0	0	0	850000
B) Engagement of Fire Watchers & Fire Fighting Squads	0	150000	0	0	0	0	0	0	0	0	0	150000
C) Purchase of Fire Fighting Equipments	0	0	0	2510000	0	0	0	0	0	0	0	2510000
D) Construction of Watch Tower	0	0	800000	0	0	0	0	0	0	0	0	800000
E) Construction of Gang Hut	0	0	0	3000000	0	0	0	0	0	0	0	3000000
F) Improvement of Communication System	0	170000	1653000	8990000	2130000	0	0	0	0	0	0	20000000
Total	0	1500000	2000000	1900000	3000000	2000000	0	0	0	0	0	6000000
14. Training and Studies	0	0	4000000	5000000	6000000	3000000	2000000	0	0	0	0	20000000
15. Awareness & publicity	0	0	0	0	0	0	0	0	0	0	0	0

Component	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	Total
16. Operational Supports												
a) Exist Charges	0	0	0	2000000	2500000	2500000	0	0	0	0	0	4500000
b) O.E.	0	75000	75000	75000	75000	75000	75000	75000	75000	75000	75000	750000
c) T.E.	0	40000	40000	40000	40000	40000	40000	40000	40000	40000	40000	400000
d) Office Equipment	0	200000	200000	0	0	0	0	0	0	0	0	400000
e) Operational Mobility	0	300000	600000	600000	300000	300000	0	0	0	0	0	4000000
f) Amenities of Staff & Labour	0	20000	20000	20000	20000	20000	20000	20000	20000	20000	20000	200000
g) Motor Vehicle	0	1100000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	1000000	20000000
Total	0	1775000	1025000	835000	3530000	3025000	2350000	2350000	2350000	2350000	2350000	103500000
17. Agricultural Support	0	0	800000	1300000	1800000	1800000	700000	500000	0	0	0	6000000
18. Horticultural Support	0	0	200000	300000	400000	400000	200000	200000	0	0	0	1500000
19. Animal Husb. Support	0	200000	300000	400000	200000	200000	200000	200000	300000	300000	100000	2000000
Total	2162000	46219000	55819000	57203800	24802500	14819500	6084750	4818000	3355250	2080790	850250	212540000
20. Contingency	216200	4023300	5081500	5720380	2480250	1481950	608475	481800	335525	208079	85025	21254000
(c) Total of Rampur and Anl	2378200	44242300	51401500	53524225	27792255	16411450	6704225	5299800	3683278	2268825	1048275	233794000

Component	0 Year		1st Year		2nd Year		3rd Year	
	Rampur Amt	Total	Rampur Amt	Total	Rampur Amt	Total	Rampur Amt	Total
c) Strengthening of Village Road & Path	0	0	815000	585000	1400000	1400000	1050000	1050000
d) Construction of Foot Bridges	0	0	340000	430000	770000	4100000	600000	4300000
Total	0	0	1155000	1015000	2170000	15500000	1655000	14800000
B. Treatment of Private Land	0	0	200000	400000	600000	2810000	0	130000
19. Fuel Saving Device	0	0	0	0	0	0	0	0
a) Const of Crematorium	0	0	300000	300000	800000	150000	150000	150000
b) Distribution of Pressure-Cooker/Biogas Chulahas	0	0	40000	60000	100000	40000	50000	10000
Total	0	0	340000	360000	900000	275000	200000	40000
11. Rain water harvesting	0	0	300000	250000	550000	400000	200000	1250000
12. Wild life Improvement	0	0	0	0	0	0	0	0
A) INTENSIVE MANAGEMENT OF WILDLIFE	0	0	0	0	0	0	0	0
B) PROTECTION OF FOREST AND WILDLIFE	0	0	0	0	0	0	0	0
a) Repair of Existing Boundary Pillars	0	0	15000	15000	30000	15000	15000	30000
b) Improvement of Wireless Communication System	0	0	0	0	0	0	0	0
c) Equipment i.e. Fire Fighting	0	0	0	0	0	75000	50000	125000
d) Debris Disposal	0	0	0	0	0	0	0	0
e) VETERINARY FACILITIES / Vaccination of Domestic Cattle	0	0	20000	20000	40000	50000	50000	140000
f) REWARD INCENTIVES TO THE INFORMERS	0	0	20000	20000	40000	20000	20000	100000
g) ANTI POACHING ACTIVITIES	0	0	20000	20000	40000	20000	20000	100000
h) HABITAT IMPROVEMENT	0	0	20000	20000	40000	20000	20000	100000
i) NATURE AWARENESS CAMP	0	0	0	0	0	75000	100000	200000
j) Wild Life Census Operations in Outside protected areas	0	0	20000	20000	40000	20000	20000	100000
k) Sign and Slogan Boards (Publicity)	0	0	0	0	0	0	0	0
B) ECO DEVELOPMENT ACTIVITIES	0	0	0	0	0	0	0	0
a) Village Support Activities / including sanitation etc.	0	0	0	0	0	40000	40000	80000
b) Development of NTTP	0	0	0	0	0	150000	150000	300000
c) Eco Tourism Activities	0	0	75000	100000	175000	100000	200000	450000
d) Income Generation Activities (Vermi Composting etc.)	0	0	0	0	0	25000	50000	100000
Total	0	0	170000	185000	365000	610000	1220000	2000000
13. Forest Protection	0	0	0	0	0	0	0	0
A) Clearance of Fire Line	0	0	10000	10000	30000	20000	40000	150000
B) Engagement of Fire Watchers & Fire Fighting Squads	0	0	0	0	0	96000	210000	960000
C) Purchase of Fire Fighting Equipments	0	0	75000	150000	150000	0	0	300000
D) Construction of Watch Tower	0	0	0	0	0	0	0	0
E) Construction of Gang Hut	0	0	0	0	0	0	0	0
F) Improvement of Communication System	0	0	0	0	0	400000	800000	1750000
Total	0	0	85000	170000	300000	516000	1850000	3000000
Total	0	0	800000	850000	1700000	1530000	4410000	8990000

Component	4th Year		5th Year		6th Year		7th Year		Total
	Rampur	Ani	Rampur	Ani	Rampur	Ani	Rampur	Ani	
1. Establishment of CAT Plan Nursery Preparatory nursery works for raising of seedlings for 1st year									
a) Afforestation of Degraded Forest Lands	0	0	0	0	0	0	0	0	0
b) Reafforestation	0	0	0	0	0	0	0	0	0
c) Assisted Natural Regeneration	0	0	0	0	0	0	0	0	0
d) Development of Medicinal Plant	0	0	0	0	0	0	0	0	0
e) Alpine Pastures	0	0	0	0	0	0	0	0	0
f) Low Lying Pastures	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
2. Forest Conservation & Improvement									
a) Afforestation of Degraded Forest Lands	967400	1575000	2542400	8371000	13440000	21750000	7410000	12000000	19410000
b) Reafforestation	616400	478500	1593200	3420000	4200000	9620000	4950000	3830000	8780000
c) Assisted Natural Regeneration	743250	1284250	2027500	2897500	3270000	6207500	2765000	2980000	3745000
d) Development of Medicinal Plant	703000	757000	1460000	2700000	3005000	5765000	1475000	1895000	3370000
e) Development of Medicinal Plant	3030000	4093000	7123100	1942750	23965000	43392500	16600000	20700000	37300000
Total	1000000	1250000	2350000	1625000	11250000	27500000	17500000	11250000	28750000
3. Pasture Improvement									
a) Alpine Pastures	1055000	1466250	2510750	4527600	6010500	14632500	1825000	3522500	3417500
b) Low Lying Pastures	1033500	1688200	2661750	4527600	6010500	14632500	1825000	3522500	3417500
Total	2088500	3154450	5172500	9055200	12021000	29265000	3650000	7045000	6835000
4. Subsidiary Silvicultural Operation									
a) Soil and Moisture Conservation Works	1475000	639200	2114200	1500000	2040000	3840000	0	0	0
b) Stabilization of Active Land Slides	1950000	2700000	2850000	0	2075000	2075000	0	0	0
c) Road Side Erosion Control	0	0	0	0	0	0	0	0	0
Total	1680000	3339200	4999200	1500000	2275000	2429000	0	0	0
5. Avenue Planting & Land Escaping									
a) Avenue Planting	60000	60000	120000	0	0	0	0	0	0
Total	60000	60000	120000	0	0	0	0	0	0
6. Forest Infrastructure Development									
a) Repair of Forest Paths	105000	95000	200000	0	0	0	0	0	0
b) Repair / construction of operational buildings	130000	455000	585000	0	0	0	0	0	0
c) Farm pond	0	0	0	0	0	0	0	0	0
d) Soil & Water Harvesting Structure	0	0	0	0	0	0	0	0	0
Total	235000	550000	785000	0	0	0	0	0	0
7. Rural Infrastructure Development									
a) Village Parks & Tanks	105000	106000	210000	0	0	0	0	0	0
b) Repair of Springs, Bawari & other Water Sources	280000	240000	520000	0	0	0	0	0	0
c) Strengthening of Village Road & Path	670000	340000	1010000	545000	320000	865000	0	0	0
d) Construction of Foot Bridges	70000	300000	370000	0	0	0	0	0	0
Total	1725000	1006000	2731000	545000	320000	865000	0	0	0

Component	4th Year		5th Year		6th Year		7th Year		8th Year		9th Year		10th Year	
	Rampur Amt	Total	Rampur Amt	Total	Rampur Amt	Total	Rampur Amt	Total	Rampur Amt	Total	Rampur Amt	Total	Rampur Amt	Total
9. Treatment of Private Land														
10. Fuel Saving Device	0	210000	0	210000	0	210000	0	210000	0	210000	0	210000	0	210000
a) Const of Crematoriums	0	225000	0	225000	0	225000	0	225000	0	225000	0	225000	0	225000
b) Distribution of Prasanna-Cooker/Bogges Chulashes	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	210000	0	210000	0	210000	0	210000	0	210000	0	210000	0	210000
11. Rain water harvesting														
12. Wild Life Improvement														
INTENSIVE MANAGEMENT OF WILDLIFE														
a) PROTECTION OF FOREST AND WILDLIFE														
b) Repair of Existing Boundary Pillars														
c) Improvement of Wireless Communication System														
d) Equipment i.e. Fire Fighting	15000	15000	30000	30000	15000	15000	15000	15000	30000	30000	0	0	0	0
e) Debris Disposal	0	0	0	0	0	0	0	0	0	0	0	0	0	0
f) VETERINARY FACILITIES / Vaccination of Domestic Cattle	20000	20000	40000	40000	20000	20000	20000	20000	40000	40000	0	0	0	0
g) REWARD INCENTIVES TO THE INFORMERS	15000	15000	30000	30000	15000	15000	15000	15000	30000	30000	0	0	0	0
h) ANTI POACHING ACTIVITIES	20000	20000	40000	40000	20000	20000	20000	20000	40000	40000	0	0	0	0
i) HABITAT IMPROVEMENT	75000	100000	175000	200000	75000	100000	75000	100000	150000	200000	0	0	0	0
j) NATURE AWARENESS CAMP	20000	20000	40000	40000	20000	20000	20000	20000	40000	40000	0	0	0	0
k) Wild Life Census Operations in Outside protected areas	20000	20000	40000	40000	20000	20000	20000	20000	40000	40000	0	0	0	0
l) Sign and Slogan Boards (publicity)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ECO DEVELOPMENT ACTIVITIES														
i) Village Support Activities / including sanitation etc.	150000	150000	300000	300000	150000	150000	150000	150000	300000	300000	0	0	0	0
ii) Development of NTFP	0	0	0	0	0	0	0	0	0	0	0	0	0	0
iii) Eco Tourism Activities	25000	25000	50000	50000	25000	25000	25000	25000	50000	50000	0	0	0	0
iv) Income Generation Activities (Vermi Composting etc.)	100000	100000	200000	200000	100000	100000	100000	100000	200000	200000	0	0	0	0
Total	440000	465000	900000	900000	440000	465000	440000	465000	900000	900000	0	0	0	0
13. Forest Protection														
A) Clearance of Fire Line	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B) Engagement of Fire Watchers & Fire Fighting Squads	96000	117000	213000	213000	96000	117000	96000	117000	213000	213000	0	0	0	0
C) Purchase of Fire Fighting Equipments	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D) Construction of Watch Tower	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E) Construction of Gang Hut	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F) Improvement of Communication System	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	96000	117000	213000	213000	96000	117000	96000	117000	213000	213000	0	0	0	0
14. Training and Studies														
	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Component	8th Year		9th Year		10th Year		Total		G. Total
	Rampur Amt	Total	Rampur Amt	Total	Rampur Amt	Total	Rampur Amt	Total	
1. Establishment of CAT Plan Nursery									
a) Preparatory nursery works for raising of seedlings for 1st year plantation work schedule	0	0	0	0	0	0	0	0	0
b) Afforestation of Degraded Forest Lands	0	0	0	0	0	0	464,000	748,000	1,212,000
c) Reforestation Afforestation	0	0	0	0	0	0	260,000	1,560,000	4,750,000
d) Assisted Natural Regeneration	0	0	0	0	0	0	48,000	360,000	840,000
e) Development of Medicinal Plant	0	0	0	0	0	0	300,000	1,200,000	3,200,000
f) Alpine Pastures	0	0	0	0	0	0	0	0	0
g) Low Lying Pastures	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1,012,000	1,160,000	2,172,000
2. Forest Conservation & Improvement									
a) Afforestation of Degraded Forest Lands	594,000	657,000	367,000	627,000	152,000	986,000	1,564,000	2,492,400	4,646,400
b) Reforestation Afforestation	479,000	322,000	248,000	217,000	93,000	465,000	1,090,000	838,000	1,928,000
c) Assisted Natural Regeneration	93,000	1,349,000	26,000	565,000	0	845,000	0	585,000	619,000
d) Development of Medicinal Plant	0	0	0	0	0	0	0	0	0
Total	1,166,000	1,413,000	643,000	1,407,000	245,000	1,336,000	2,654,000	4,308,400	7,661,400
3. Pasture Improvement									
a) Alpine Pastures	0	0	0	0	0	0	2,200,000	86,000	11,000,000
b) Low Lying Pastures	1,905,000	2,452,500	395,700	807,500	17,500	208,200	6,250	30,500,000	611,000
Total	1,905,000	2,452,500	395,700	807,500	17,500	208,200	6,250	30,500,000	611,000
4. Subsidary Silvicultural Operation									
a) Soil and Moisture Conservation Works	0	0	0	0	0	0	0	0	0
b) Stabilization of Active Land Slide	0	0	0	0	0	0	0	0	0
c) Treatment of Nallas	0	0	0	0	0	0	0	0	0
d) Road Side Erosion Control	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
5. Avenue Planting & Land Encasing									
a) Repair of Forest Paths	0	0	0	0	0	0	0	0	0
b) Repair / construction of operational buildings	0	0	0	0	0	0	0	0	0
c) Farm pond	0	0	0	0	0	0	0	0	0
d) Soil & Water Harvesting Structure	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
6. Avenue Planting & Land Encasing									
a) Repair of Forest Paths	0	0	0	0	0	0	0	0	0
b) Repair / construction of operational buildings	0	0	0	0	0	0	0	0	0
c) Farm pond	0	0	0	0	0	0	0	0	0
d) Soil & Water Harvesting Structure	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
7. Forest Infrastructure Development									
a) Repair of Forest Paths	0	0	0	0	0	0	0	0	0
b) Repair / construction of operational buildings	0	0	0	0	0	0	0	0	0
c) Farm pond	0	0	0	0	0	0	0	0	0
d) Soil & Water Harvesting Structure	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0
8. Rural Infrastructural Development									
a) Village Ponds & Tanks	0	0	0	0	0	0	0	0	0
b) Repair of Springs, Bawari & other Water Sources	0	0	0	0	0	0	0	0	0
c) Strengthening of Village Road & Path	0	0	0	0	0	0	0	0	0
d) Construction of Foot Bridges	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

Component	8th Year		9th Year		10th Year		Total		G.Total
	Rampur	Ami	Rampur	Ami	Rampur	Ami	Rampur	Ami	
Total	0	0	0	0	0	0	5885000	5345000	11130000
9. Treatment of Private Land	0	0	0	0	0	0	500000	1000000	1800000
10. Fuel Saving Device	0	0	0	0	0	0	600000	975000	1575000
a) Cost of Materials	0	0	0	0	0	0	90000	140000	230000
b) Distribution of Pressure-Cooker(Biogas Chulabhis)	0	0	0	0	0	0	890000	1115000	1805000
Total	0	0	0	0	0	0	900000	975000	1575000
11. Rain water harvesting	0	0	0	0	0	0	900000	825000	1525000
12. Wild Life Improvement	0	0	0	0	0	0	0	0	0
A) INTENSIVE MANAGEMENT OF WILDLIFE	0	0	0	0	0	0	0	0	0
B) PROTECTION OF FOREST AND WILDLIFE	0	0	0	0	0	0	0	0	0
a) Repair of Existing Boundary Pillars	0	0	0	0	0	0	75000	75000	150000
b) Improvement of Wireless Communication System	0	0	0	0	0	0	50000	50000	125000
c) Equipment (i.e. Fire Fighting)	0	0	0	0	0	0	75000	75000	150000
d) Debris Disposal	0	0	0	0	0	0	100000	100000	200000
e) VETERINARY FACILITIES / Vaccination of Domestic Cattle	0	0	0	0	0	0	100000	100000	200000
f) AWANTI POACHING ACTIVITIES	0	0	0	0	0	0	75000	75000	150000
g) HABITAT IMPROVEMENT	0	0	0	0	0	0	100000	100000	200000
h) NATURE AWARENESS CAMP	0	0	0	0	0	0	300000	350000	650000
i) Wild Life Census Operations in Outside protected areas	0	0	0	0	0	0	100000	100000	200000
ii) Sign and Slogan Boards (Publicity)	0	0	0	0	0	0	100000	100000	200000
Total	0	0	0	0	0	0	800000	800000	1600000
B) ECO DEVELOPMENT ACTIVITIES	0	0	0	0	0	0	0	0	0
a) Village Support Activities / including sanitation etc.	0	0	0	0	0	0	600000	650000	1250000
b) Development of NTPP	0	0	0	0	0	0	175000	200000	375000
c) Eco Tourism Activities	0	0	0	0	0	0	100000	100000	200000
d) Income Generation Activities (Worm Composting etc.)	0	0	0	0	0	0	250000	250000	500000
Total	0	0	0	0	0	0	2300000	2400000	4700000
13. Forest Protection	0	0	0	0	0	0	0	0	0
A) Clearance of Fire Lines	0	0	0	0	0	0	50000	45000	95000
B) Engagement of Fire Watchers & Fire Fighting Squads	0	0	0	0	0	0	384000	418000	802000
C) Purchase of Fire Fighting Equipments	0	0	0	0	0	0	75000	75000	150000
D) Construction of Watch Tower	0	0	0	0	0	0	175000	175000	350000
E) Construction of Gaoth Hut	0	0	0	0	0	0	400000	400000	800000
F) Improvement of Communication System	0	0	0	0	0	0	150000	150000	300000
Total	0	0	0	0	0	0	1234500	1313600	2548100
14. Training and Studies	0	0	0	0	0	0	300000	300000	600000

Component	Yearwise / Divisionwise Physical Target												Annexure XVIII			
	6 Year No./Ha.		1st Year No./Ha.		2nd Year No./Ha.		3rd Year No./Ha.		4th Year No./Ha.		5th Year No./Ha.		6th Year No./Ha.			
	Rampur	Ans	Rampur	Ans	Rampur	Ans	Rampur	Ans	Rampur	Ans	Rampur	Ans	Rampur	Ans		
1. Establishment of CAT Plan Nursery nursery works for raising of seedlings for 1st year plantation work schedule	121000 Nos.	167000 Nos.	70000 Nos.	49000 Nos.	12000 Nos.	9000 Nos.	100000 Nos.	12550 Nos.	110Ha New	150Ha New	110Ha New/110 Main	150Ha New/150 Main	50Ha New/220 Main	150Ha New/330 Main	300 Main	480 Main
a) Afforestation of Degraded Forest Lands																
b) Replenishment Afforestation																
c) Assisted Natural Regeneration																
d) Development of Medicinal Plant																
e) Alpine Pastures																
f) Low Lying Pastures																
2. Forest Conservation / Extension & Improvement																
a) Afforestation of Degraded Forest Lands																
b) Replenishment Afforestation																
c) Assisted Natural Regeneration																
d) Development of Medicinal Plant																
3. Pasture Improvement																
a) Alpine Pastures																
b) Low Lying Pastures																
4. Subsidiary Silvicultural Operation																
5. Soil and Moisture Conservation Works																
a) Stabilization of Active Land Slide																
b) Treatment of Nallas																

Component	0 Year No./Ha.		1st Year No./Ha.		2nd Year No./Ha.		3rd Year No./Ha.		4th Year No./Ha.	
	Rampour	Ami	Rampour	Ami	Rampour	Ami	Rampour	Ami	Rampour	Ami
C) Road Side Erosion Control	---	---	---	---	---	---	---	---	---	---
E. Avenue Planting & Land Escaping	---	---	---	---	---	---	---	---	---	---
F. Forest Infrastructure Development	---	---	---	---	---	---	---	---	---	---
a) Repair of Forest Paths	---	---	---	---	---	---	---	---	---	---
b) Repair / construction of operational buildings	---	---	---	---	---	---	---	---	---	---
c) Farm pond	---	---	---	---	---	---	---	---	---	---
d) Soil & Water Harvesting Structure	---	---	---	---	---	---	---	---	---	---
E. Rural Infrastructural Development	---	---	---	---	---	---	---	---	---	---
a) Village Ponds & Tanks	---	---	---	---	---	---	---	---	---	---
b) Repair of Springs, Bawari & other Water Sources	---	---	---	---	---	---	---	---	---	---
c) Strengthening of Village Road & Path	---	---	---	---	---	---	---	---	---	---
d) Construction of Foot Bridges	---	---	---	---	---	---	---	---	---	---
9. Treatment of Private Land	---	---	---	---	---	---	---	---	---	---
10. Fuel Saving Device	---	---	---	---	---	---	---	---	---	---
a) Const of Crematoria	---	---	---	---	---	---	---	---	---	---
b) Distribution of Pressure-Cooker/Bogges Chulihies	---	---	---	---	---	---	---	---	---	---
11. Rain water harvesting	---	---	---	---	---	---	---	---	---	---
12. Wild Life Improvement	---	---	---	---	---	---	---	---	---	---
A) INTENSIVE MANAGEMENT OF WILDLIFE	---	---	---	---	---	---	---	---	---	---
B) PROTECTION OF FOREST AND WILDLIFE	---	---	---	---	---	---	---	---	---	---
a) Repair of Existing Boundary Pillars	---	---	---	---	---	---	---	---	---	---
b) Improvement of Wireless Communication System	---	---	---	---	---	---	---	---	---	---
c) Equipment i.e. Fire Fighting	---	---	---	---	---	---	---	---	---	---
d) Debris Disposal	---	---	---	---	---	---	---	---	---	---
III) VETENARY FACILITIES / Vaccination of Domestic Cattle	---	---	---	---	---	---	---	---	---	---
III) REWARD INCENTIVES TO THE INFORMERS	---	---	---	---	---	---	---	---	---	---
IV) ANTI POACHING ACTIVITIES	---	---	---	---	---	---	---	---	---	---
V) HABITAT IMPROVEMENT	---	---	---	---	---	---	---	---	---	---
VI) NATURE AWARENESS CAMP	---	---	---	---	---	---	---	---	---	---
VIII) Wild Life Census Operations in Outside protected areas	---	---	---	---	---	---	---	---	---	---
VIII) Sign and Slogan Boards (Publicly)	---	---	---	---	---	---	---	---	---	---
B) ECO DEVELOPMENT ACTIVITIES	---	---	---	---	---	---	---	---	---	---
i) Village Support Activities / Including Sanitation etc.	---	---	---	---	---	---	---	---	---	---
ii) Development of NITPP	---	---	---	---	---	---	---	---	---	---
iii) Eco Tourism Activities	---	---	---	---	---	---	---	---	---	---
iv) Income Generation Activities (Vermi Composting etc.)	---	---	---	---	---	---	---	---	---	---
13. Forest Protection	---	---	---	---	---	---	---	---	---	---
A) Clearance of Fire Lick	---	---	---	---	---	---	---	---	---	---
B) Engagement of Fire Watchers & Fire Fighting Squads	---	---	---	---	---	---	---	---	---	---

Component	0 Year No./Ha.		1st Year No./Ha.		2nd Year No./Ha.		3rd Year No./Ha.		4th Year No./Ha.	
	Rampur	Ati	Rampur	Ati	Rampur	Ati	Rampur	Ati	Rampur	Ati
C) Purchase of Fire Fighting Equipments										
D) Construction of Watch Tower										
E) Construction of Gang Hut										
F) Improvement of Communication System							1 No.			
14. Training and Studies										
15. Awareness & publicity										
16. Operational Supports										
a) Essit Changes										
b) O.E.										
c) T.E.										
d) Office Equipment										
e) Operational Mobility										
f) Amenities of Staff & Labour			2 Nos	2 Nos			1 No.			
g) Motor Vehicle										
17. Agricultural Support										
18. Horticultural Support										
19. Animal Husbandary Support										

Component	5th Year No./Ha.		6th Year No./Ha.		7th Year No./Ha.		8th Year No./Ha.		9th Year No./Ha.		10th Year No./Ha.	
	Rampur	Ani	Rampur	Ani	Rampur	Ani	Rampur	Ani	Rampur	Ani	Rampur	Ani
1. Establishment of CAT Plan Nursery Preparatory nursery works for raising of seedlings for 1st year plantation work starts	---	---	---	---	---	---	---	---	---	---	---	---
a) Afforestation of Degraded Forest Lands	---	---	---	---	---	---	---	---	---	---	---	---
b) Replenishment Afforestation	---	---	---	---	---	---	---	---	---	---	---	---
c) Assisted Natural Regeneration	---	---	---	---	---	---	---	---	---	---	---	---
d) Development of Medicinal Plant	---	---	---	---	---	---	---	---	---	---	---	---
e) Alpine Pastures	---	---	---	---	---	---	---	---	---	---	---	---
f) Low Lying Pastures	---	---	---	---	---	---	---	---	---	---	---	---
2. Forest Conservation / Extension & Improvement	---	---	---	---	---	---	---	---	---	---	---	---
a) Afforestation of Degraded Forest Lands	300 Main 200 Main	480 Main	300 Main	480 Main	300 Main	480 Main	300 Main	480 Main	190 Main	330 Main	80 Main	150 Main
b) Replenishment Afforestation	250 Main	200 Main	250 Main	200 Main	250 Main	200 Main	250 Main	200 Main	107 Main	140 Main	80 Main	60 Main
c) Assisted Natural Regeneration	195 Main	205 Main	195 Main	205 Main	155 Main	175 Main	70 Main	100 Main	20 Main	45 Main	---	---
d) Development of Medicinal Plant	80 Main	90 Main	50 Main	65 Main	15 Main	15 Main	260 Main	200 Main	---	---	---	---
e) Pasture Improvement	---	---	---	---	---	---	---	---	---	---	---	---
f) Alpine Pastures	---	---	---	---	---	---	---	---	---	---	---	---
g) Low Lying Pastures	10 Ha New/70 Main	25 Ha New/135 Main	80 Main	100 Main	80 Main	100 Main	60 Main	130 Main	45 Main	70 Main	---	20 Main
4. Subsidiary Silvicultural Operation	---	---	---	---	---	---	---	---	---	---	---	---
5. Soil and Moisture Conservation Works	65 Ha	45 Ha	70 Ha	New 45 Ha	25 Ha	40 Ha	---	---	---	---	---	---
6. Road Side Erosion Control	2 Nos.	1 Nos.	---	---	---	---	---	---	---	---	---	---
7. Forest Infrastructure Development	---	---	---	---	---	---	---	---	---	---	---	---
a) Repair of Forest Paths	---	---	---	---	---	---	---	---	---	---	---	---

Component	5th Year No. Hrs		6th Year No. Hrs		7th Year No. Hrs		8th Year No. Hrs		9th Year No. Hrs		10th Year No. Hrs	
	Rampur	Ans	Rampur	Ans	Rampur	Ans	Rampur	Ans	Rampur	Ans	Rampur	Ans
b) Repair / construction of operational buildings												
c) Farm pond												
d) Soil & Water Harvesting Structure												
8. Rural Infrastructural Development												
a) Village Ponds & Tanks												
b) Repair of Springs, Borewells & other Water Sources												
c) Strengthening of Village Road & Path												
d) Construction of Foot Bridges	13 Nos.	6 Nos.										
9. Treatment of Private Land												
10. Fuel Saving Device												
a) Condit of Crematoria												
b) Distribution of Pressure-Cooker/BioGas Chulhas												
11. Rain water harvesting												
12. Wild-Life Improvement												
A) INTENSIVE MANAGEMENT OF WILDLIFE												
B) PROTECTION OF FOREST AND WILDLIFE												
a) Repair of Existing Boundary Pillars												
b) Improvement of Wireless Communication System												
c) Equipment i.e. Fire Fighting												
d) Debris disposal												
e) VETERINARY FACILITIES / Vaccination of Domestic Cattle												
f) REWARD INCENTIVES TO THE INFARMERS												
g) ANTI POACHING ACTIVITIES												
h) HABITAT IMPROVEMENT												
i) NATURE AWARENESS CAMP												
ii) Wild Life Census Operations in Outside protected areas												
iii) Eco and Slogan Boards (Publicity)												
III. ECO DEVELOPMENT ACTIVITIES												
a) Village Support Activities / Including Sanitation etc.												
i) Developments of NTPP												
ii) Eco Tourism Activities												
iii) Income Generation Activities (Vermi Composting etc.)												
13. Forest Protection												
A) Clearance of Fire Line												
B) Engagement of Fire Watchers & Fire Fighting Squads												
C) Purchase of Fire Fighting Equipments	5 Nos.	12 Nos.										
D) Construction of Watch Tower												
E) Construction of Gang Hut												
F) Improvements of Communication System												
14. Training and Studies												
15. Awareness & publicity												

Component	9th Year No./Ha.		8th Year No./Ha.		7th Year No./Ha.		6th Year No./Ha.		5th Year No./Ha.		4th Year No./Ha.	
	Rampur	Ani	Rampur	Ani	Rampur	Ani	Rampur	Ani	Rampur	Ani	Rampur	Ani
16. Operational Supports												
a) Extra Charges												
b) O.E.												
c) T.E.												
d) Office Equipment												
e) Operational Mobility												
f) Amenities of Staff & Labour												
g) Motor Vehicle												
17. Agricultural Support												
18. Horticultural Support												
19. Animal Husbandry Support												

COMPONENT WISE PHYSICAL AND FINANCIAL OUTLAY

Particulars	Ramgur Division		Ant Division		Total		Percentage
	Physical	Financial	Physical	Financial	Physical	Financial	
1. Establishment of CAT Plan Nursery	1012000			1150000		2162000	0.92
2. Forest Conservation & Improvement							
a) Afforestation of Degraded Forest Lands	300	15594000	480	24902400	780	40496400	17.31
b) Replenishment Afforestation	290	10901800	200	8386000	490	19287800	8.25
c) Assisted Natural Regeneration	195	5889000	205	6191000	400	12080000	5.17
d) Development of Medicinal Plant	80	3208000	90	3609000	170	6817000	2.92
Total Forest Conservation & Improvement	835	35562800	975	43698400	1810	79261200	33.65
a) Alpine Pastures	25	220000	100	880000	125	1100000	0.47
b) Low Lying Pastures	80	3556000	160	6112000	240	9168000	3.92
Total Pasture Improvement	105	3276000	260	6992000	365	10268000	4.39
4. Subsidiary Silvicultural Operation	200	500000	180	450000	380	950000	0.41
5. Soil and Moisture Conservation Works							
a) Stabilization of Active Land Slide	9150000			12394200		21544200	9.22
b) Treatment of Nalies	14120000			27560000		41680000	17.63
c) Road Side Erosion Control	450000			674000		1124000	0.48
Total	23720000			40628200		64348200	27.53
6. Avenue Planting & Landscaping	120000			237800		357800	0.15
7. Forest Infrastructure Development							
a) Repair of Forest Paths	755000			855000		1610000	0.69
b) Repair / construction of operational buildings	3250000			1850000		5100000	2.18
c) Farm pond				450000		450000	0.33
d) Soil & Water Harvesting Structure	1200000			1350000		2550000	1.09
Total	6530000			4505000		10035000	4.29
8. Rural Infrastructural Development							
a) Village Ponds & Tanks	700000			770000		1470000	0.63
b) Repair of Springs, Bawari & other Water Sources	1000000			1000000		2000000	0.86
c) Strengthening of Village Road & Path	3285000			2075000		5360000	2.29

Particulars	Rampour Division		Ani Division		Total		Percentage
	Physical	Financial	Physical	Financial	Physical	Financial	
d) Construction of Foot Bridges		1000000		1500000		2500000	1.07
Total		5885000		5345000		11330000	4.85
9. Treatment of Private Land		500000		1000000		1500000	0.64
10. Fuel Saving Device		600000		975000		1575000	0.67
a) Const of Crematoria		90000		140000		230000	0.1
b) Distribution of Pressure-Cooker/BioGas Chullahes		690000		1115000		1805000	0.77
Total		900000		625000		1525000	0.65
11. Rain water harvesting							
12. Wildlife Improvement							
A) INTENSIVE MANAGEMENT OF WILDLIFE							
II) PROTECTION OF FOREST AND WILDLIFE							
a) Repair of Existing Boundary Pillars		75000		75000		150000	0.06
b) Improvement of Wireless Communication System		75000		75000		150000	0.06
c) Equipment i.e. Fire Fighting		100000		100000		200000	0.09
d) Debris Disposal		100000		100000		200000	0.09
III) VETERINARY FACILITIES / Vaccination of Domestic Cattle		75000		75000		150000	0.06
III) REWARD INCENTIVES TO THE INFORMERS		100000		100000		200000	0.09
IV) ANTI POACHING ACTIVITIES		100000		100000		200000	0.09
V) HABITAT IMPROVEMENT		300000		350000		650000	0.28
VI) NATURE AWARENESS CAMP		100000		100000		200000	0.09
VII) Wildlife Census Operations in Outside protected areas		100000		100000		200000	0.09
VIII) Sign and Slogan Boards (Publicity)		80000		80000		160000	0.07
Total Intensive Management of Wildlife		1180000		1295000		2385000	1.03
B) ECO DEVELOPMENT ACTIVITIES							
i) Village Support Activities / Including Sanitation etc.		600000		650000		1250000	0.53
ii) Development of NTFP.		175000		200000		375000	0.16
iii) Eco Tourism Activities		100000		100000		200000	0.09
iv) Income Generation Activities (Worm Composting etc.)		250000		250000		500000	0.21
Total Eco Development Activities		1125000		1200000		2325000	0.99
Total Wildlife Management		2305000		2405000		4710000	2.02
13. Forest Protection							
A) Clearance of Fire Line		50000		45000		95000	0.04
B) Engagement of Fire Watchers & Fire Fighting Squads		364000		468000		832000	0.36

Particulars	Rampur Division		Ani Division		Total		Percentage
	Physical	Financial	Physical	Financial	Physical	Financial	
C) Purchase of Fire Fighting Equipments		75000		75000		150000	0.06
D) Construction of Watch Tower		175500		175500		351000	0.15
E) Construction of Gang Hat		400000		400000		800000	0.34
F) Improvement of Communication System		150000		150000		300000	0.13
Total Forest Protection		1234500		1313500		2548000	1.08
14. Training and Studies		200000		300000		500000	0.21
15. Awareness & publicity		1000000		1000000		2000000	0.86
16. Operational Supports		2000000		2500000		4500000	1.92
a) Esst Charges		250000		500000		750000	0.32
b) O.E.		100000		300000		400000	0.17
c) T.E.		100000		300000		400000	0.17
d) Office Equipment		500000		1000000		1500000	0.63
e) Operational Mobility		100000		100000		200000	0.08
f) Amenities of Staff & Labour		500000		1500000		2000000	0.86
g) Motor Vehicle		100000		100000		200000	0.08
Total Operational Support		4150000		6200000		10350000	4.42
17. Agricultural Support		2500000		3500000		6000000	2.57
18. Horticultural Support		750000		750000		1500000	0.64
19. Animal Husbandary Support		1000000		1000000		2000000	0.86
Total		96935300		121604700		218540000	90.91
20. Contingency		9093530		12160470		21254000	9.09
G.Total		100028830		133765170		233794000	100

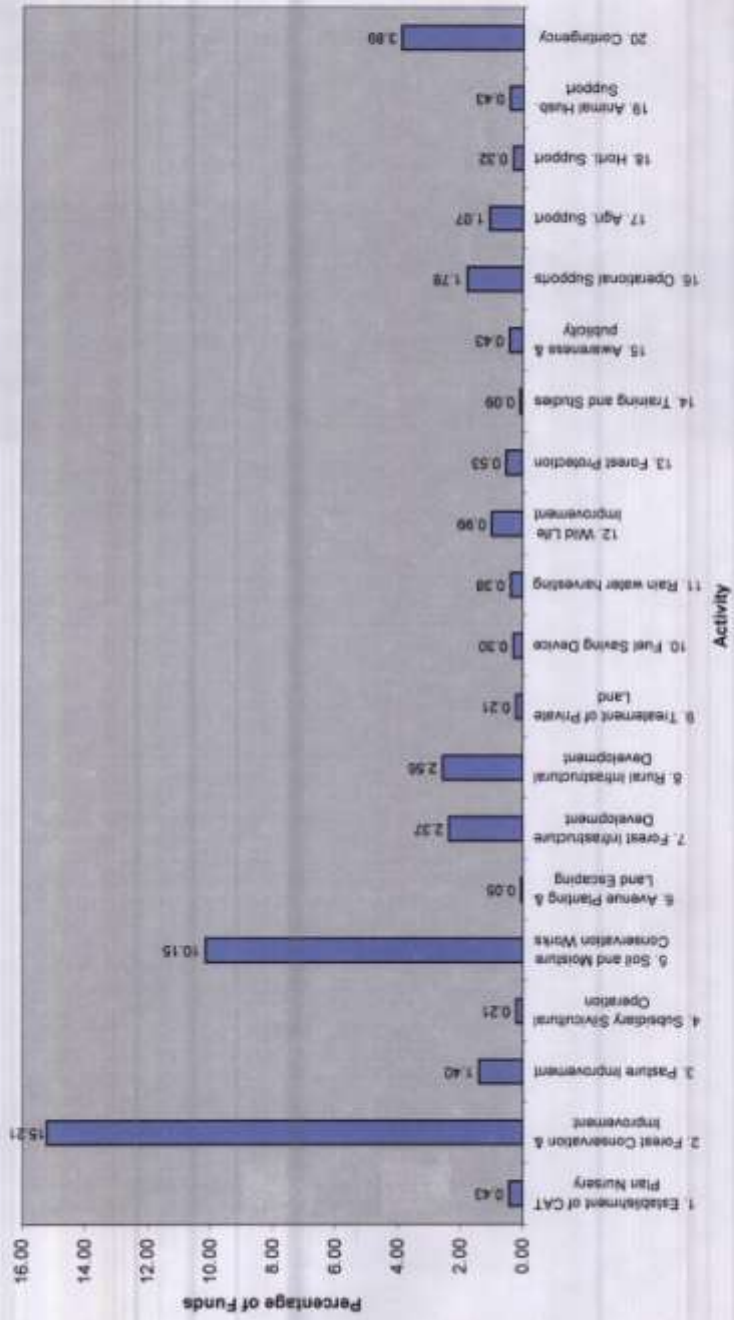
2-6-50
Sr. Manager
Infra Deptt. FOREP
S-J-MALL, Jhalra

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Divisional Forest Officer
Ani Forest Division
at Lahar (H. P.)

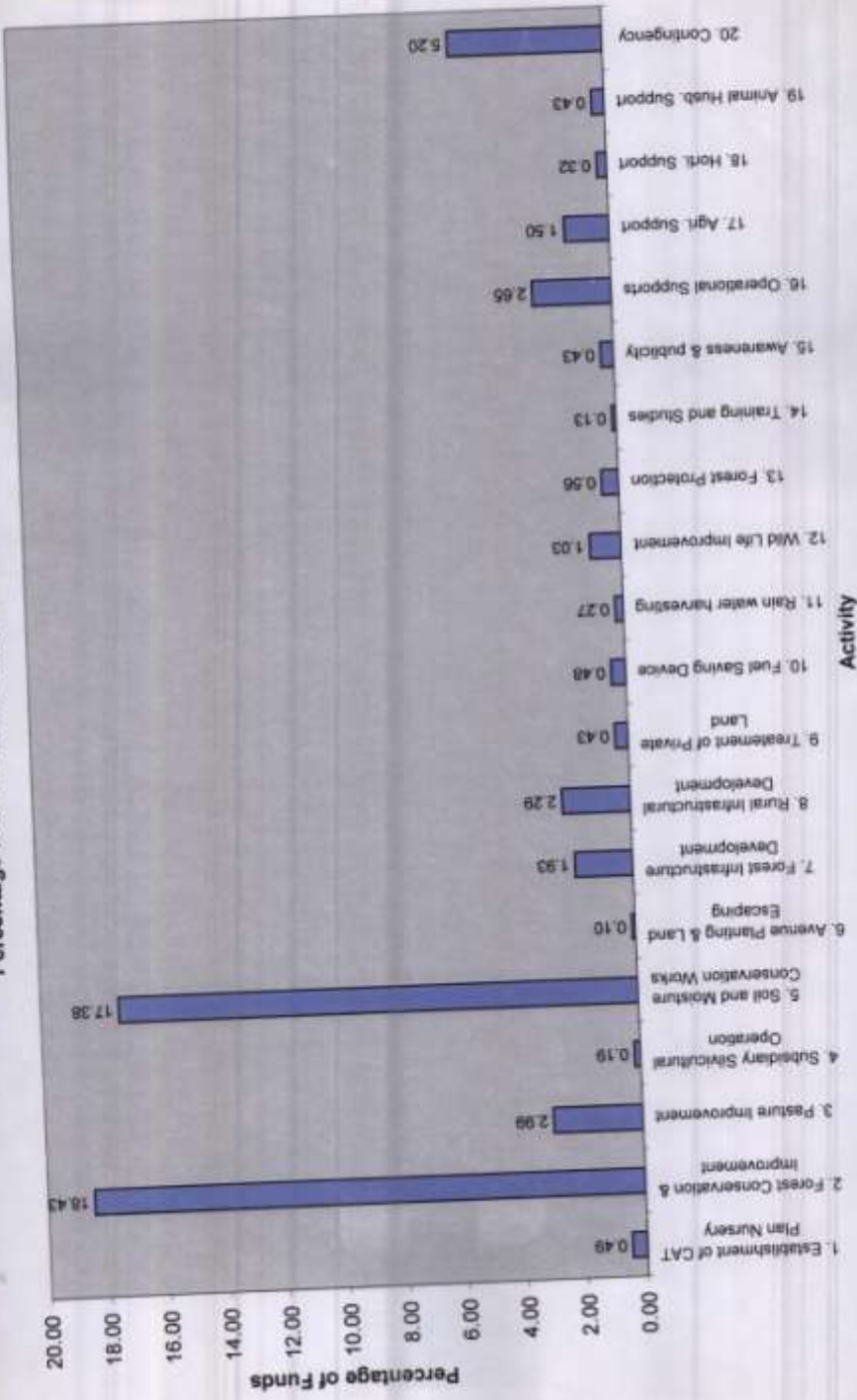
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Divisional Forest Officer
Rampur Forest Division

[Signature]
Project Officer US/WDS-cum
Divisional Forest Officer
CAT Pen Division Nizhar

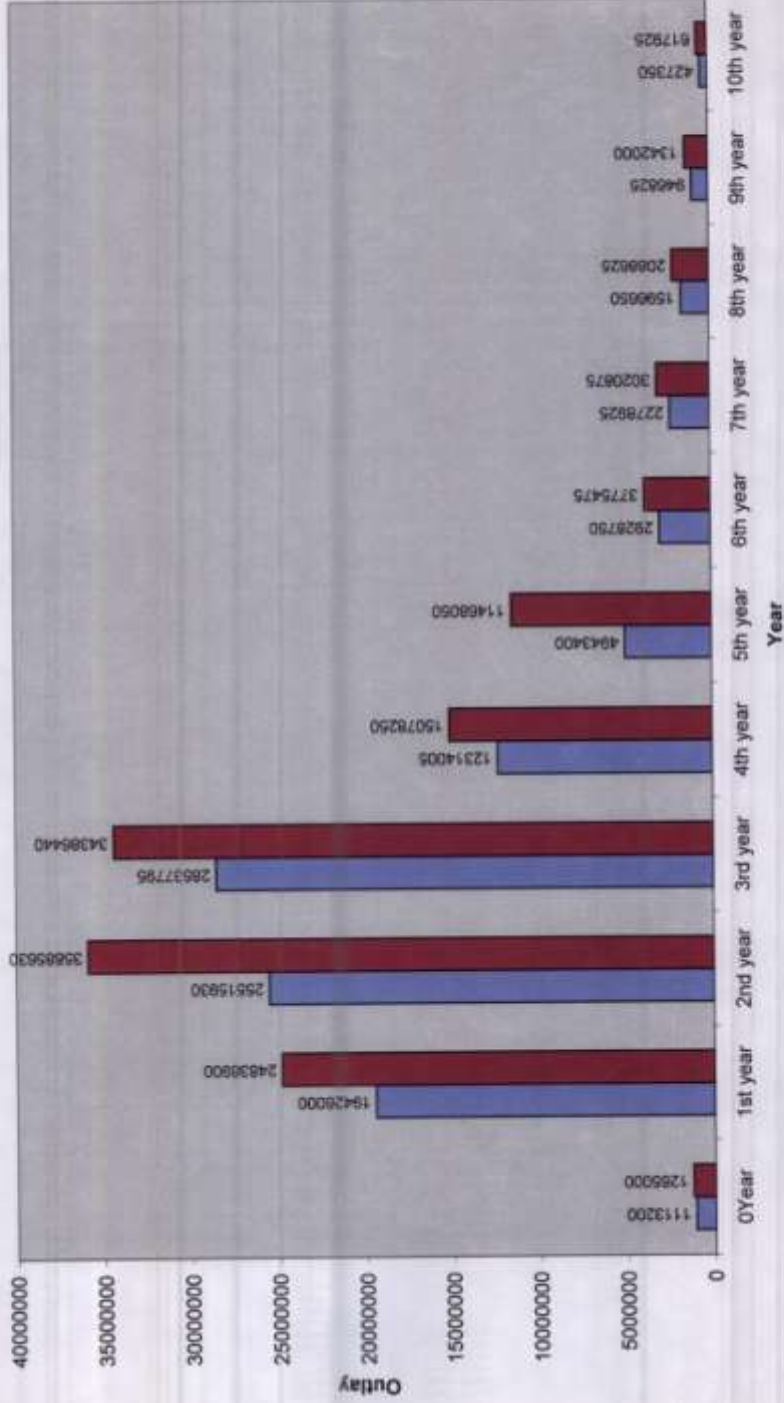
Percentage wise Financial Outlay of Rampur Division



Percentage wise Financial Outlay of Ani Division

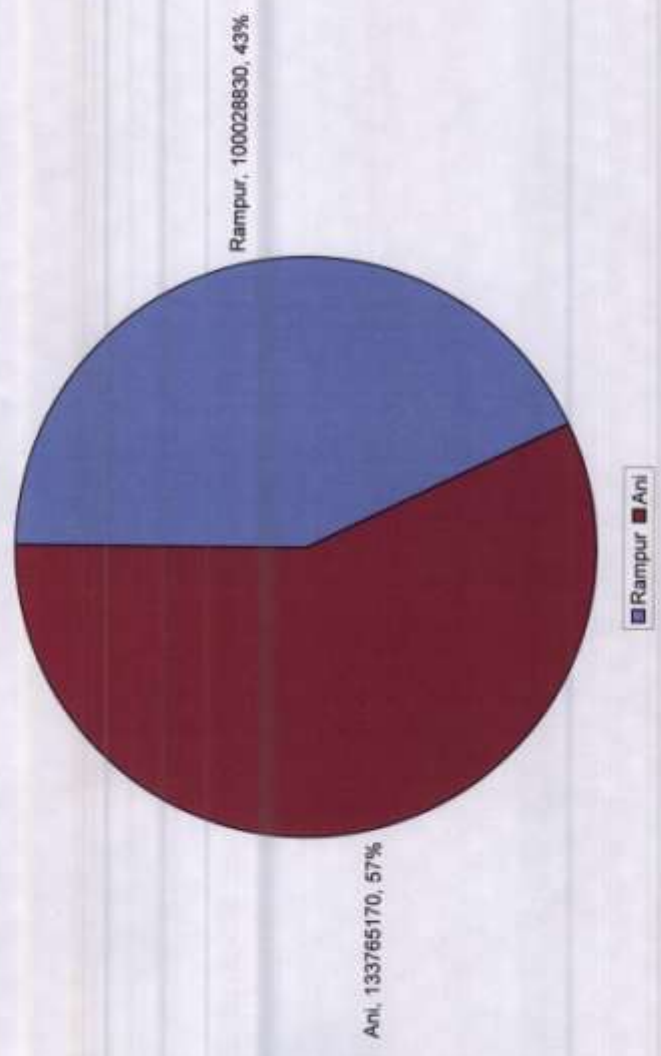


Year Wise Financial Outlay



Rampur Ani

Division Wise Financial Outlay



**List of Participants of CAT Plan Rampur Project held on
dated 29/01/05 at F.R.H. Nogli**

S.No.	Name	Address
1	S/Sh. Sher Singh D.R.	B.O. Arsu
2	Puran Chand Sharma D.R.	B.O. Sarahan, Arsu Range
3	Daulat Ram	B.O. Nankhari / Gahan
4	Mal Dev Sharma	B.O. Sholi, Nankhari Range
5	Tuln Ram	B.O. Deothi Rampur Range
6	Hari Ram	Forest Guard i/c Munish Beat
7	Ishwar Dass	Forest Guard i/c Averi Beat
8	Satish chand	Forest Guard i/c Nirmand
9	Mukand Lal	Forest Guard Ghatu Beat
10	Madan Gupta	B.O. Bahali
11	Sohan Lal	Forest Guard
12	Layak Ram	Forest Guard
13	R. D. Sharma	Forest Guard
14	Bhagwan Dass	Forest Guard
15	Mohan Lal	Fgd. Sarpara
16	Prithvi Raj	Fgd. Darshai Beat
17	Narender Kumar	Fgd. Tunan Beat
18	Piartap Singh	Fgd. Dansa Beat
19	Kalam Singh	Fgd. Nogli Beat
20	Nand Ram D.R.	B.O. Pancha
21	Hukam Ram	Fgd. Brow Beat
22	Krishan dev	Fgd. Surad Beat
23	Ram Surup Sharma	Fgd. Darkali Beat
24	Mehar Singh D.R.	B.O. Taklech
25	Parkash Chand	Fgd. Taklech
26	Gurdyal Singh	Fgd. Katmore Beat
27	Mani Lal D.R.	B.O. Rampur
28	Davinder Lal	Fgd. Delath Beat
29	Bhag Chand	Forest Guard, Margi Beat
30	Roshan Lal	Forest Guard, Palli Beat
31	Patamber Negi	B.O. Kharga
32	Kartar Singh D.R.	B.O. Nirmand
33	Virender Mehta	Fgd. Khamadi Beat
34	Madan Lal Mehta	Fgd. Nither Beat
35	Swaroop Chand	B.O. Nither
36	Joginder Singh	Fgd. Sarahan Beat (Kullu)
37	R.S. Jaswal	R.O. Nankhari
38	N.R. Thakur	R.O. Bahli
39	Kishori Lal	R.O. Arsu
40	H.S. Mehta	R.O. Rampur
41	N.L. Negi	R.O. Sarahan (Shimla)
42	Anil Vaidya	DFO Rampur
43	R.R. Bhalaik	DFO Kinnaur
44	Roshan Kedarta	B.O. Nogli
45	Sohan Lal	Fgd. Dutt Nagar Beat
46	Shiv Ram	Fgd. Rampur Beat
47	Hardev Singh	Fgd. Nankhari Beat
48	Muni Lal	Fgd. Sarahan Beat (Shimla)
49	Y.D. Sharma	Fgd. Nore Beat
50	Kanwar Singh	Fgd. Arsu Beat
51	Tek Singh	Fgd. Pujarli Beat
52	C.M. Sharma	DFO Cat Plan, Nichar

Annexure -XXX(b)

**List of Participants of CAT Plan Rampur Project held on
dated 08/04/05 at M.C. Hall Rampur**

S.No.	Name	Address
1	Sr/Sh. H.S. Mehta	R.O. Rampur
2	R.S. Jaswal	R.O. Nankhari
3	N.L. Negi	R.O. Sarahan (Shimla)
4	N.R. Thakur	R.O. Bahli
5	Bhawani Sharma	Pardhan G.P. Laisa
6	Mohan Kapatia	Pardhan G.P. Sarpara
7	Khel Chand Negi	Pardhan G.P. Dansa
8	B.D. Dogra	Pardhan G.P. Koot 15/20
9	Geetanji Kaith	Pardhan GP. Deothi
10	Puran Chand Sharma D.R.	B.O. Sarahan (Kulu)
11	Kartar Singh D.R.	B.O. Nirmand
12	Gopal Singh	Pardhan GP. Chandli Baranda
13	Daulat Ram D.R.	B.O. Nankhari / Gahan
14	Kalam Singh	Fgd. Nogli
15	Ram Swaroop	Fgd. Darkali
16	Mal Dev Sharma	B.O. Sholi
17	Krishan Dev	Fgd. Sarahar
18	Mukund Lal	Fgd. Ghatu
19	Swaroop Chand	B.O. Nither
20	Lal Chand	Pardhan Lote
21	Chander Kanta	Pardhan GP Kungal Balti
22	Rajeshwari Shukla	Pardhan GP Thaili Chakti
23	Sarojani Thakur	Pardhan GP Munish
24	Urmila Dhiman	Pradhan GP Kuhlai
25	Parkash Chand	Fgd. Theda Beat
26	Hari Ram	Fgd. Munish
27	Pune Ram Sharma	Fgd. Tharla Beat
28	Hem Raj	Fgd. Kharga Beat
29	Nirmal Shukla	Pardhan GP Bahli
30	Tikam Bushahn	Pardhan GP Kaleda
31	Devki Nand	Pardhan GP Dev Nagar
32	Ram Lal Toita	Pardhan GP. Labana Sadana
33	Bhagwan Dass	Forest Guard
34	Girja Chauhan	Pardhan GP Khamadi
35	H. Kapoor	Sr. Eng. (RHEP)
36	Aika Jaswal	Sr. Officer (RHEP)
37	S.K. Sharma	Sr. Manager (SJVNL)
38	Sita Devi	Pardhan GP
39	D.S. Thakur	Member GP Kila
40	Yogesh Verma	DFO Ani
41	Pitamber Negi D.R.	B.O. Kharga
42	Sohan Lal	Forest Guard
43	Nand Lal	
44	Kailash Pranta	Pardhan GP Kushwa
45	Rakesh	Panchayat Samiti Member Poshna
46	Vishal Thakur	
47	Prem Singh	Vice President GP Duttanagar
48	Kamlesh Sharma	Vice President GP Majeoli Tipper
49	Tikam Ram	Pardhan GP Bari
50	Y.P. Ganeria	ACF. Rampur

S.No.	Name	Address
51	Jiya Lal	President MC Rampur
52	Kalam Singh	Pardhan GP Barach
53	Roshan	B.O. Nogli
54	Shiv Ram	Fgd. Rampur Beat
55	Mani Lal D.R.	B.O. Rampur
56	Mohan Lal	Pardhan GP
57	Kamlesh Chand	Panchayat Secy. GP Koot
58	Partap Singh	Fgd. Densa
59	Bihari Sewgi	Member Zila Parishad
60	Vishashar Lal	Pardhan GP Racholi
61	Bisheshar Negi	Reporter Divya Himachal
62	Shiv Lal Dabral	Reporter Danik Bhaskar
63	Rama Parsad	Reporter Amar Ujala
64	Ramesh Sharma	Reporter Punjab Kesari
65	Dharam Dass	Electrition
66	Shiv Singh	B.O. Ansu
67	Kishori Lal	R.O. Ansu
68	Prithvi Raj	Fgd. Darshal
69	Promsia Devi	Computer Operator Rampur
70	C.M. Sharma	DFO CAT Plan Nichar
71	V.R.R. Singh	C.F. Rampur
72	Anil Vaidya	DFO Rampur

**MAP SHOWING CATCHMENT AREA
TREATMENT PLAN OF RAMPUR
HYDRO-ELECTRIC PROJECT**

SCALE:- 1:2,50,000

**RAMPUR FOREST DIVISION
AREA = 61250 HA.**

**ANI FOREST DIVISION
AREA = 45000 HA.**

INDEX

-  Ani Forest Div.
-  Rampur Forest Div.
-  Satluj River
-  N.H.-22

