#### INTRODUCTION

Nawada Forest Division was constituted in the year 2003 comprising of one civil district of Magadh Circle- Nawada. The total forest area of this Division is 58364.80 sq. km. Earlier the entire area of the Division formed part of the Gaya Forest Division as two of its Ranges- Rajauli and Kauwakol and was, thus, being managed by the Working Plan of Gaya Forest Division. The present Plan will be the first separate Working Plan for Nawada Forest Division.

The past approved Working Plans, Schemes & Revised Working Plans for the management of erstwhile Gaya Forest Division are-

Sl.No.	Writers of the previous Working Plans	Working Plan Period
I	Sri B.N Prasad	1957-58 to 1966-67 extended up to 1974-75
II	Revised W.P. By Sri P. Mishra for Koderma & Rajauli Range	1959-60 to 1968-69 extended up to 1974-75
III	Sri Om Kumar (Khair Working Scheme) for Barachatty and Gurpa Range	In the year 1970-71
IV	Sri B.C Jha (Revised W.P)	1980-81 to 1999-2000

Since 2000 fresh Working Plan could not be prepared. The P. W. P. R. for Nawada Forest Division was prepared by Sri A. K. Prasad, I.F.S., the then Conservator of Forests, Gaya Circle in January, 2011 suggesting six Working Circles-as Protection-cum-Soil Conservation WC, Rehabilitation WC, Plantation WC, Extension WC, Agro Forestry WC and Wildlife (Overlapping) WC.

The field work for the present Working Plan started in August, 2012 and completed in June, 2013. The field works were executed by Sri Anand Sundar Sahay, Range Officer of Forests in Nawada and Hisua Ranges, Sri Suresh Prasad Gupta, Range Officer of Forests in Rajauli Range and by Sri K. K. Singh, Range Officer of Forests in Kauwakol Range with the assistance of four Foresters of the Division namely Sri Gopal Kumar, Sri Uday Naryan Shukla, Sri Satish Chandra Sinha & Sri Vijay Kumar and their contribution is appreciated.

A preliminary survey was done in entire forest area of Nawada Forest Division and 798 enumeration plots of size 1 ha were laid in different representative forest and plantation

areas on random basis. Species-wise data in girth-class of 10 cms were recorded and number of stems/ha, volume/ha and other growth statistics were analyzed.

In the draft Working Plan six main working circles, namely Protection (Overlapping) Working Circle, Soil & Water Conservation (Overlapping) Working Circle, Rehabilitation Working Circle, Plantation Working Circle, Wildlife Management (Overlapping) Working Circle and Joint Forest Management (Overlapping) Working Circle were proposed. Where the earlier Working Plans emphasized mainly on revenue collection and commercial felling of trees under different Working Circles, no felling series was prescribed in this present Working Plan due to the depleted condition of forests.

To achieve 15% tree cover in the State by 2016-17 a separate chapter on the Management of Trees Outside Forests (TOF) has been prescribed. Khair, Bamboo and other NTFP Overlapping WC from the previous Working Plan was removed from this Plan as their existed no sizable number and quality of these species. However, enrichment plantation of these species were proposed in the Rehabilitation WC and Plantation WC which well help to rehabilitate the forests at the earliest and also provide some revenue to the VFMCs. A chapter on the Management of Bamboo & Other MFP has been described for early enrichment of these species. Miscellaneous Regulations have also been proposed.

On 06.06.2013 a meeting of the State Level Consultative Committee for Working Plan was held in Patna to discuss the draft Working Plan of Nawada Forest Division. The meeting was chaired by the Principal Chief Conservator of Forests, Bihar. The Regional Chief Conservator of Forests, Eastern Region, GoI, Bhubaneshwar was also kind enough to participate in this meeting. In the said meeting it was suggested that-

- 1. The Protection (O) WC and the Improvement WC should be merged together.
- 2. NTFP Management (O) WC should exist.
- 3. A Monitoring and Evaluation system should be proposed for mid term appraisal of the Plan prescriptions.
- 4. Socio-economic Survey in the vicinity of the forest villages should be done to access their dependency.
- 5. A study of medicinal plants available in these forests should be made.
- 6. The data to be updated.

The above suggestions were accordingly complied in the revised Working Plan. NTFP, Medicinal Plants and Fodder Management (Overlapping) WC was proposed. Socioeconomic survey in the notified forest villages was done and the report formed part of the Plan. A Monitoring and Evaluation mechanism was also added in the Plan.

On 31.08.2014, second meeting of the State Level Consultative Committee for Working Plan was held in Patna in which it was again decided to have a separate Forest Protection (Overlapping) Working Circle as well as Improvement Working Circle. Accordingly these suggestions have been incorporated in the final Working Plan.

I thank Sri Sanjay Kumar Singh, I.F.S., the then Divisional Forest Officer, Nawada Forest Division, Nawada and also the present Divisional Forest Officer of the Division Sri Surendra Singh, I.F.S. and their frontline staff for providing different data of the Division and also accompanying in field visits.

I am thankful to Sri H.K Roy, B.F.S., the then Working Plan Officer, Working Plan Division, Patna., Sri S. K. Thakur, I.F.S., the then Conservator of Forests, Working Plan Circle and Sri A. K. Prasad, I.F.S., the present Conservator of Forests, Working Plan Circle, Patna for their guidance. I am also thankful to Sri S. S. Choudhary, I.F.S., the Chief Conservator of Forests, Working Plan, Training & Extension, Patna for his support and technical guidance in preparation of this Working Plan in its present form.

I am very much thankful to Sri B. N. Jha, I.F.S., the then Principal Chief Conservator of Forests, Bihar and Sri B.A. Khan, I.F.S., Principal Chief Conservator of Forests, Bihar for support and guidance in preparing this Working Plan.

At the end I would also like to thank Sri Manish Kumar and Sri Bhavesh, GIS Experts, NIC, Patna centre for extending their help in preparing different maps of the Division. I also thank Sri Surendra Prasad, Assistant Conservator of Forests of the Division for his help in preparing different graphs in the Plan.

Patna, 15<sup>th</sup> of September, 2014

P.K. Jaiswal, Forest Working Plan Officer, Forest Working Plan Division, Patna.

## **WORKING PLAN OF NAWADA FOREST DIVISION**

## (2013-14 то 2022-23)

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# GLOSSARY OF VERNACULAR AND BOTANICAL NAMES OF COMMON PLANTS OF NAWADA FOREST DIVISION.

Local Name	<b>Botanical Name</b>	<u>Habit</u>
Arar	Acacia pennata	Climber
Akwan	Calotropis gigantean	Shrub
Amaltas	Cassia fistula	Tree
Amarbel	Cuescuta reflexa	Tree
Amla	Emblica officinalis	Tree
Anjan	Hardwickia binata	Tree
Am	Mangifera indica	Tree
Arjun	Terminalia arjuna	Tree
Asan	Terminalia tomentosa	Tree
Alkusi	Mucuna pruirta	Climber
Amra	Spondias pinnata	Tree
	Syn. Spondias mangifera	
Babul	Acacia Arabica	Tree
Bel	Aegle marmelos	Tree
Beri	Casearia tomentosa	Shrub
Bans	Dendrocalamus strictus	Bamboo
Bar	Ficus bengalensis	Shrub (parasite)
Banda	Loranthus longifolius	Shrub (parasite)
Bantulsi	Perilla ocimoides	Shrub
Bijasal	Ptetocarpus marsupiam	Tree
Bariar	Sida cordifolia	Shrub
Bahara	Terminalia belerica	Tree
Ber	Zyzyphus jujube	Shrub
Bharhul	Chloroxylon swietania	Tree

Bhurkund Hymenodictyon excelsum Tree

Bhelwa Semecarupus anacardium Tree

Chamror Ehretia leavis Tree

Choranth Heteropogon contortus Tree

Dhela Alangium salvifoliam Large shrub

Dudhlar Cryptolepis buchanani Climber

Dhawai Woodfordia fruticosa Shrub

Dhautha Anogeissus latifolia Tree

Dumar Ficus glomerata Tree

Dithor Zizyphus oenopila Climber

Gherrneem Ailanthus excels Tree

Gamhar Gmelina arborea Tree

Galgal Cochlospermus religiosum Tree

Galfuli Flemingia chappar Shrub

Gurika Mitragyna parvifolia Tree

Jhingam Lannea coromandelica Tree

Gaj Millettia auriculata Climber

Harre Terminalia chebula Tree

Harsingar Nyctanthes arbortristis Shrub

Imali Tamarindus indica Tree

Jirhul Indigofera pulchella Shrub

Jamun Syzygium cumini Tree

Khonta Ixera arborea Shrub

Khair Acacia catechu Tree

Konar Bauhinia purpura Tree

Kala siris Albizzia lebbek Tree

Kachnar Bauhinia variegate Tree

Kathmahuli Bauhinia retusa Tree

Kajh Bridelia retusa Tree

Kanod Carissa opaca Shrub

Kend Diospyros melanoxylon Tree

Katahi Flacourtia indica Large shrub

Karhar Gardenia turgid Large shrub

Koraiya Holorrhena antidysenterica Large shrub

Khajur Phoenix acaulis Shrub

Kusum Schleichera oleosa Tree

Kenjhi Sterculia urens Tree

Kokur-botur Vallarisso lanacaa Shrub

Khus-khus *Vetiveria zizanioides* Grass

Karam Adina cordifolia Tree

Kathar Zizyphus xylopurus Large shrub

Kumbhi *Careya arborea* Tree

Karla Cleistanthes collinus Tree

Kekar Garuga pinnata Tree

Larpalas Butea superb Climber

Murabba Agave Americana Shrub

Mahulan Bauhinia vahlii Shrub

Mansondha Croton oblongifolius Large shrub

Manfal Randia dumetorum Large shrub

Munj Erianthus munja Grass

Mahua Madhuca indica Tree

Neem Azadirachta indica Tree

Piar Buchanania lanzan Tree

Palas Butea monosperam Tree

Pipal Ficus religiosa Tree

Putus Lantana camara Shrub

Pandan Ougenia oggentensis Tree

Patdhaman Grewia elastic Tree

Ratti Abrus precatorius Creeper

Ratangarur Elaeodendron glaucum Tree

Rori Mallotus philippinsis Tree

Ramdatwan Smilax zeylanica Climber

Rohan Soyamida fobrifunga Tree

Ratend Combretum decandrum Climber

Safedsiris Albizzia procera Tree

Satwar Asparagus recemosus Shrub

Semal Salmalia malbarica Tree

Salai Boswellia serrata Tree

Sidha Lagerstroemia parviflora Tree

Sisham Dalbergia sissoo Tree

Sonapatta *Oroxylum indicum* Tree

Sal Shorea robusta Tree

Sagwan Tectona grandis Tree

Sinduar Vitex nogundo Shrub

Sabai Euleliopsis binata Grass

Titbhant Clorodendrum viscosum Shrub

Tilai Wondlandia tinctoria Shrub

Tar Borassus flabellifer Tree

Udal Sterculia villosa tree

## **STATE OF FORESTS IN BIHAR**

- Figures at a Glance

Based on interpretation of satellite data (October 2008-March 2009) and Forest/ Trees outside Forest (TOF) Inventory carried out by Forest Survey of India and the key results published in India State of Forest Report 2011, the State of Forest in Bihar is as follows:

I. Geography of the State-

	ocography or the otate			
1	Situation	In the eastern part of India bordering		
		Nepal, lying between 240 14' N – 270 45'		
		N latitude and 830 16' E - 880 30' E		
		longitude, part of Gangetic Plains.		
2	Geographical area	94,163 sq. km. (2.86% of the Country)		
3	Annual Rainfall	Varies between 1000 – 2000 mm.		
4	Mean Annual Temperature	Ranges between 200 C to 280 C		
5	Major Rivers	Ganga and Gundak.		

## II. Bihar in comparison to India and World

SI.	Particulars	World	India	Bihar	
No.					
1	Geographical	14,84,29,000	32,87,263 sq.	94,163 sq.	
	Area	sq. km.	km. (2.70% of	km. (2.86%	
			World)	of India)	
2	Forest & Tree	4,03,30,000	78,287 sq. km.	9,214 sq.	
	Cover	sq. km.		km.	
3	Percentage	31	23.81	9.79	
4	Population	7 Billion	1.21 Billion	103.80	
				Million	
5	Average Forest	0.60 Ha.	0.064 Ha.	0.0088 Ha.	

Area per Person	
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## III. State of Forests in Bihar in comparison to India

(as per ISFR 2011, area in sq. km.)

SI.	Forest & Tree Cover	India		Bihar	
No.		Area	%	Area	%
1	Total Geographical Area	3287263	100	94163	100
2	Forest Cover				
2A	Very Dense Forest (VDF)	83471	2.54	231	0.25
	(Density >70%)				
2B	2B Medium Dense Forest (MDF)		9.76	3280	3.48
(Density 40-70%)					
2C Open Forest (Density 10-40%)		287820	8.75	3334	3.54
	Total	90844	21.05	6845	7.27
3	Tree Cover (TOF)	90844	2.76	2369	2.52
4	Total of Forest & Tree Cover	782871	23.81	9214	9.79
5	Scrub Forest (Density <10%)	42177	1.28	134	0.14
6	Non Forest Area	2553059	77.67	84815	90.07

## IV. Change in Forest Cover in 2011 Assessment in comparison to that made in 2009

Assessment	VDF	MDF	OF	Scrub	Non-Forest	Total
year						
2009	231	3248	3325	134	87225	94163
2011	231	3280	3334	134	87184	94163
Change	0	32	9	0	-41	-

## V. Legal Status of Forests (Area in sq. km.)

Sl. No.	Reserved Forest	Protected Forest	Unclassified Forest	Total
Area	693	5779	1	6473
%	10.706	89.279	0.015	100

#### LIST OF COMMON ANIMALS AND BIRDS

The common wild animals found in Nawada Forests Division and adjacent forests are as follows:-

Hyena, Sloth bear, Wolf, Wild dog, Wild boar, Sambar, Spotted deer, Nilgai, Hare, etc. have been reported to be seen in the forests of the area. Once Tiger and Leopards were also present in old Gaya Forests Division, forming a good hunting resort. But the same have now become extinct from these forests.

#### The common birds found in this region are as follows:-

Pea fowl, Jungle fowl, Partridge, Black & Gray quail, Hornbill, Parrot, Dove, etc.

In addition to above, a lot of reptiles- snakes as python and small creatures are also found in the area.

The rivers flowing through this division are not perennial and hence availability of fishes is of not much significance.

#### **SUMMARY OF PRESCRIPTIONS**

#### 1. THE TRACT DEALT WITH:

The Nawada Forest Division came into existence in 2003 vide Environment and Forests department, Government of Bihar notification no. 3688 dated 22.10.2003 comprising of Nawada District with the objective of protection of natural resources and increasing green cover through afforestation on government wastelands, road, river and canal sides and non-productive private lands. Agriculture is the main source of livelihood. The climate is more temperate, with average rainfall being 1037 mm.

#### 2. THE AREA:

The total geographical area of Nawada district is 2494 sq. km. and the total forest area of the Nawada Forest Division is 583.65 sq. km., which is 23.40% of the total geographical area of the district. The legal status of the forest is as follows:

**Legal Status of Forest Area in the Division** (Area in sq. km.)

1					1		· · · · · · · · · · · · · · · · · · ·
	Name of	Geographical	Khas	RF	PF	Total Forest	% FA of
	District	Area	Mahal			Area	GA
	Nawada	2494	37.71	27.37	518.57	583.65	23.40

#### 3. THE FORESTS:

The forests in Nawada Forest Division correspond to the 'Tropical Dry Deciduous Forests' as per Champion and Seth's classification of forests. Within this type, local variations are met with, due to variations in nature of soil and topography. Better stocked patches occur in cooler and protected areas on the south-west corner of the district adjoining the forests of Jamui Forest Division of Bihar and Giridih Forest Division of Jharkhand State.

There are four Ranges in the Division- Nawada, Hisua, Rajauli and Kauwakol.

#### 4. STATE OF BOUNDARIES:

Out of 182 notified forest areas, boundary lines of only 100 of them have been demarcated, and that out of 4725 notified boundary pillars in the Division, 2458

boundary pillars have been constructed between 2005-06 and 2012-13. At few plantation sites adjacent to agricultural lands, trench fencing has also been done. However, at some places the boundaries between the forest area and the private lands are not demarcated. The old boundary pillars need to be maintained regularly and at the same time new pillars need to be constructed.

#### 5. RIGHTS AND CONCESSIONS:

The forests of **Nawada** Forest Division are not burdened with any right except right of way and watercourse. The privileges granted include grazing of cattle and free grant of small timber and firewood.

#### 6. PAST MANAGEMENT:

Nawada Forest Division was earlier part of Gaya Forest Division as two of its Ranges- Rajauli and Kauwakol. This new Division was created in 2003. The forests of this Division were also managed by the same working plan as prescribed for the Gaya Forest Division. The last approved working plan was that of Sri B. C. Jha's Plan effective from 1980-81 to 1999-2000 which has been described in Chapter-VII of Volume-I.

#### 7. WILDLIFE:

In past the area was well known for its wildlife games. However, in present times wildlife is not prominent in the tract. Neelgai, hyna, sloth bear, jackal, hare, monkeys and few reptiles as python are seen in this tract.

#### 8. AREA OF THE PLAN:

The forest area of this Division is 583.65 sq. km. limited to the northern aspect Nawada District. However, the area of the Plan shall be the entire geographical area of the district, covering the forest area as well as the area outside the forests, which forms the bulk of the area and is most suited for increasing tree cover.

#### 9. OBJECTIVES OF MANAGEMENT:

The following main objectives have been fixed for this Working Plan-

#### A. Long Term Objectives:

- (i) To maintain environmental stability through preservation of the remaining natural forests and restoration of ecological balance
- (ii) To improve the productivity of Forests to meet the essential local needs, especially fuel wood, fodder and small timber for the rural people.
- (iii) Increasing substantially the forest/tree cover through afforestation and social forestry programmes, especially on all degraded and unproductive lands, river and canal sides, and other fallow lands.
- (iv) To ensure scientific management of the Forests.
- (v) To protect the Forests through the co-operation of local communities on the principles of Joint Forest Management.

#### B. Short term Objectives:

- (i) Improvement of the existing growing stock and its density by reclamation of degraded forests through plantations aided by artificial regeneration.
- (ii) Improvement of soil quality through soil conservation measures.
- (iii) To give special attention to water conservation measures inside the forest area so as to improved moisture regime and water availability.
- (iv) Plantation of suitable species which can meet the local requirements. Bamboo will be given importance for sustainable yield.
- (v) To increase diffusion areas for wild life.
- (vi) Involvement of the local people in the management process through Joint Forest Management.
- (vii) Strengthening of infrastructure of the Division for protection and achieving the above goals.

#### 10. PROPOSED WORKING CIRCLES:

The following Working Circles have been proposed in this Plan-

- i. Protection-cum-Improvement Working Circle.
- ii. Soil & Water Conservation (Overlapping) Working Circle.
- iii. Rehabilitation Working Circle.
- iv. Plantation Working Circle.
- v. Wildlife Management (Overlapping) Working Circle.
- vi. Joint Forest Management (Overlapping) Working Circle.
- vii. NTFP, Medicinal Plants & Fodder Management (Overlapping) Working Circle.
- viii. Forest Protection (Overlapping) Working Circle.

Management prescriptions for following operations have also been given in the Plan

- a. Management of Tree Cover Outside Forests (TOF).
- b. Miscellaneous Regulations.
- c. Monitoring & Evaluation

#### 10.1. Improvement Working Circle

The Improvement Working Circle includes those forest areas which have some rooted stocks and can establish if protected and some silvicultural operations done. This is limited to the hill tops and nala banks in the remote areas. The total area allocated to this WC is 184.84 sq. kms (32% of the total forest area). The main objective of this circle is to protect the existing natural resources. The hills and hillocks which have suffered the most in loss of soil and vegetation are also included in this working circle.

This working circle also covers the areas under inferior miscellaneous growth of poor density. These areas do have potential to convert itself into good forest in comparatively lesser time and with lesser efforts.

#### 10.2. Soil & Water Conservation (Overlapping) Working Circle

Nawada Forest Division falls under the rain shadow zone, there being 1037 mm of normal rains only through out the year distributed in 50 average numbers of rainy days. Only 26% of the net area of the Nawad District is irrigated from all sources. Due to illicit felling and indiscriminate removal of vegetation, the hills and hillocks have suffered heavy erosion. Thus, apart from silvicultural operations, it is necessary to make an appropriate plan of action for improvement of soil and water (moisture) content in the forest area. Hence the entire forest area of 583.65 sq. km. of the Nawada Forest Division has been kept under this working circle. Earthen check dams, boulder check dams, contour trenches and water harvesting dams are proposed to be constructed during the Plan period.

#### 10.3. Rehabilitation Working Circle

An area of 252.84 sq. km. (43% of the total forest area) included under Rehabilitation Working Circle is under stocked forests having root stock, but in the bushy stage i.e. rooted wastes or in perpetual sapling stage since long and

are not able to grow up and establish into pole crop by itself due to adverse biotic factors and interferences like grazing, fire and unregulated felling. An area of 225 sq. km. have been proposed to be planted in the first five years of the Plan period. Depending on the success of the schemes and the mid term appraisal, provisions for the next five years will be made.

#### 10.4. Plantation Working Circle

This working circle comprises of 145.97 sq. km. (25 % of the total forest area) of barren and eroded plain areas near the foothills where there is no chance of natural regeneration in near future. Being adjacent to the villages, there is immense biotic pressure.

The area can be easily assessed, planted and in the following years sivicultural operations can be done. It also includes those areas where plantations have been done in the past. An area of 100 sq. km. have been proposed to be planted in the first five years of the Plan period. Depending on the success of the schemes and the mid term appraisal, provisions for the next five years will be made.

#### 10.5. Wildlife Overlapping Working Circle

This will be an overlapping working circle extending over the entire geographical area of the Nawada Forest Division. This working circle will deal with the conservation/ regulation of faunal wildlife in the forests as well as outside within the perspectives of Wildlife (Protection) Act, 1972 (Amendment Act 2006). The Divisional Forest Officer, Nawada Forest Division is the ex-officio Wildlife Warden and he will be responsible for the protection, conservation and development of wildlife present in the area. The wildlife seen during enumeration work are neelgai, jackal, wolf, and hare, while others commonly seen are hyena, sloth bear, few bird species and reptiles.

#### 10.6. Joint Forest Management (Overlapping) Working Circle

This Working Circle is constituted with a view to achieve the objectives of the sustainable management based on the principles of participatory approach. As [xxviii]

all prescriptions of the earlier working circles are subject to the constitution of the Forest Protection Committees and preparation of Micro-plans, this working circle becomes important for the constitution of different committees, their regulations and functioning, and overall sharing of responsibilities as well as benefits. 55 VFMPCs have been constituted in the Division.

Thus, the area allotted to this overlapping working circle is the entire forest area of the Nawada Forest Division and also the adjoining non-forest areas.

#### 10.7. NTFP, Medicinal Plants & Fodder Management (Overlapping) W Circle

The forests of the Division were once rich in NTFP and medicinal plants, but now has depleted due to heavy biotic pressure. However, there still occurs khair (Acacia catechu), bamboo (Dendrocalamus strictus), kendu leaves and other NTFP very much scattered here and there in the entire forest area of the Division, but not in workable quantity and quality. The bamboo, to a large extent, occurs in dry mixed forest often associated with Salai on hill tops and occasionally with Sal. Thus, the entire forest area needs special treatment for these species, as protection and enrichment plantations, to establish again so as to meet the bonafide needs of the local people.

#### 10.8 Forest Protection (Overlapping) Working Circle

The forests of the Division are divided into small areas of 1000 acre and less which are further surrounded by a number of villages. There is immense biotic pressure on these forests leading to their degradation and loss of tree cover. Thus, to achieve the objectives of management, the forests need to be protected against grazing, illicit felling, fire, encroachment and also the wildlife offences against the few surviving wild animals.

#### 10.9. Management of Tree Cover Outside Forests (TOF)

In Nawada Forest Division, the forested area is 583.65 sq. km. which covers only 23.40 % of the total geographical area of 2494 sq. km. of the district. Thus, an area of 1910.35 sq. km. lies outside the forested area. This area has to be used for increasing the tree cover, which will not only be helpful to meet the daily

requirements of the local people, but also release pressure from the forests and help to improve the environment of the area and conserve biodiversity.

Thus, afforestation works will be done in the entire area of the district, extending plantation of trees on farm lands, road, canal, river and rail sides and on other fallow lands with the objective to increase the tree cover up to 15% in the next five years.

#### 11. PLAN EXPENDITURE & REVENUE:

The present condition of the forests of the Division is highly depleted and not in position to give any revenue in true sense. However, some sale price may be collected from the illegally felled trees/poles, those along the roads and also as compensation receipts. The total expenditure other than establishment, etc. have been proposed as Rs. 146.32 crores during the Plan period on different proposed plan activities including protection works and infrastructure development.

#### 12. SOURCE OF FUNDING:

The source of fund for the activities prescribed in the Working Plan will be from-

- i. Forest Development Agency Funds from GOI.
- ii. Plan Funds from GOI & GOB.
- iii. Non-Plan Funds from GOB.
- iv. CAMPA FUND
- v. Employment Guarantee Schemes, as MGANREGA.
- vi. Van Ewam Vanyaprani Sanrakshan Kosh.
- vii. Bamboo Mission.
- ix. 13/14<sup>th</sup> Finance Commission, etc.