



**JAWHAR FOREST DIVISION, JAWHAR**

# **PRELIMINARY WORKING PLAN REPORT**



**PERIOD**

**2019-20 TO 2030-31**

**OFFICE OF THE DEPUTY CONSERVATOR OF FOREST,  
JAWHAR FOREST DIVISION, JAWHAR**

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# **FIRST PWPR FOR THE JAWHAR FOREST DIVISION**

## **PART-I: BRIEF COMMENTS ON PART-I OF THE SHRI VIKAS GUPTA, DR.V.D.CHAFEKAR SHRI JEET SHINGH WORKING PLAN**

### **CHAPTER I THE TRACT DEALT WITH**

#### **SECTION –I NAME AND SITUATION**

1.1.1 The current plan is known as “The Working Plan for the Forest of Jawhar Forest division of Palghar district”. It deals with the Reserve forests of 663.71 Sq. Km, Protected Forests of 214.810 Sq.km and Acquired forests of 29.79 Sq. Km, Un classed Forests 0.032Sq Km.

1.1.2 At present the total forest area of the Jawhar Division is 908.34 sq.km, out of which 663.71 sq.km. is Reserved Forest, 214.81 sq. km. is Protected Forest, 29.79 sq. km is Acquired Forest and 0.032 Sq. km land acquired for Compensatory Afforestation.

A difference in area of 5.81 Sq.km. of Reserved Forest is observed which is due to the net difference between area of the Reserved Forest as in form no.1 and the area of the Reserved Forest after Planimetering done by Shri. Vikas Gupta, Dr.V.D.Chafekar and Sri. Jeet Singh while preparing the Working Plan. Similarly, an increase in area of 0.032 Sq.km. in Protected Forest is observed which is due to notification of Compensatory land as Protected Forest and was received from the Revenue Department.

Area reconciliation shall be done at the time of preparing the PWPR-II and accordingly Form No.1 register shall be updated.

1.1.2 The area covered by working plan lies between longitudes 72° 27’ and 73°28’ East and between latitudes 19° 28’ and 20°9’ North. It is bounded by Dadra and Nagar Haveli and West Nashik Forest Division in North, by West Nashik Forest division and Shahpur Forest Division in East, by Tansa Wildlife Sanctuary and Thane Forest Division in South. and Dahanu Forest Division in Palghar District.in West.

#### **SECTION –2 CONFIGURATION OF GROUND**

No change proposed.

#### **SECTION –3 GEOLOGY, ROCK AND SOIL**

No change proposed.

#### SECTION –4 CLIMATE

No change proposed.

#### SECTION –5 WATER SUPPLY

No change proposed.

#### SECTION –6 DISTRIBUTION OF AREA

Distribution and classification of the forest area in 10 ranges of Jawhar Forest Division is as under:-

#### **JAWHAR FOREST DIVISION - RANGE WISE AREA DISTRIBUTION AS PER FORM NO-1**

(Area in Sq.km.)

Sr. No	Range	Reserve Forest	Protected Forests	Acquired Forests	Compensatory Afforestation land	Total
1	South Jawhar	67.020	19.260	0.160	0.032	86.472
2	North Jawhar	68.00	19.850	1.910	-	89.76
3	Mokhada	39.72	16.750	-	-	56.470
4	Khodala	29.020	6.320	10.070	-	45.410
5	Sawa	100.73	22.71	0.090	-	123.53
6	Saiwan	75.24	30.75	-	-	105.99
7	West Wada	84.25	29.80	13.66	-	127.71
8	Kanchad	53.16	27.86	2.30	-	83.32
9	East Wada	70.32	17.36	1.410	-	89.09
10	Vikramgad	76.24	24.16	0.190	-	100.59
<b>Total</b>		<b>663.71</b>	<b>214.810</b>	<b>29.79</b>	<b>0.032</b>	<b>908.342</b>

#### SECTION –7 BOUNDARIES

The existing boundaries will change to the extent, the forest area that has been added in the form of Acquired Forest, Protected Forest and Compensatory land received from the revenue department.

## SECTION –8 LEGAL POSITION

Reorganization proposal of entire division wherein range boundaries will be in co-terminus with revenue boundaries for efficient administration is already sent to higher offices. As per the reorganization proposal, the division will be having Forests area falling under 4 talukas namely, Jawhar, Mokhada, Vikramgad and Wada only, excluding Dahanu taluka forest area . The entire saiwan range totaling an area of 110.370 sq. km falling under Dahanu taluka is proposed to be included under Dahanu Forest Division. Similarly from Thane division and Shahpur division , parts of Wada taluka and Mokhada taluka totaling an area of 28.61 sq.km and 27.00 sq.km is proposed to be part of Jawhar division. Also, an area of 72.57 ha of Dahanu division falling under Vikramgad taluka is proposed under Jawhar division. Thereby total of 126.152 sq.km is proposed to be added to the total area of the division after approval of the proposal. In Protected Forest, an additional area of 0.032 Sq. km. received for compensatory afforestation has been notified as P.F. u/s 29 of IFA 1927. As on 1/4/2017 a total of 18720.788 ha is in possession with Revenue department, out of which an area of 17928.598 ha is been handed over back to Forest department by Revenue department on 20/11/2017. Remaining area of 792.190 ha is in possession with Revenue department which is been followed up with Collector, Palghar for handing over after removal of encroachments.

## SECTION –9 RIGHTS AND CONCESSION

Grazing Settlement for Jawhar Forest Division by Shri.A.N.Waghaye, ACF, Jawhar has been sanctioned by Govt. Of Maharashtra vide order No.MFP-2103/CR-135/F-1 Dated 6-5-2008.

The details of cases pertaining to Schedule Tribes and other Traditional Forest Dwellers Act 2006 are as under: (As on Dec 2017)

<i>Total cases</i>	Cases rejected	Cases referred to collector	Cases approved by collector	Area (ha.)
1716 3	-	17163	17163	14011.10 2

Details of total area over which the rights to be recognized in favour of the Schedule Tribe and Other Traditional Forest dwellers will be included in PWPR-II. No change proposed in existing rights and concessions. At present, area of 14011.102 ha have been allotted under FRA-2006. A separate chapter will be incorporated while writing the PWPR-II by the working plan officer

**CHAPTER II**  
**THE FOREST**

SECTION –1 COMPOSITION AND CONDITION OF THE CROP

No change proposed

SECTION –2 INJURIES TO WHICH THE CROP IS LIABLE

No change proposed

**CHAPTER III**  
**UTILISATION OF THE FOREST PRODUCE**

**SECTION –1 AGRICULTURAL CUSTOMS AND NEEDS OF THE  
POPULATION**

No change proposed.

**SECTION –2 MARKETS AND MARKETABLE PRODUCES**

No change proposed, except the fact that the timber of exploitable size is available in a negligible quantity. Hence the role of FLCS in exploitation works reduced drastically.

**SECTION –3 LINE OF EXPORT**

No change proposed

**SECTION –4 METHOD OF HARVESTING**

At present out of nine F.L.C.S in the division, only two are operating . Also CFR titles have been issued for an area of ha, Community Forest Management Committee will prepare their own Community Forest Mangement Plan for harvesting of the timber and the firewood from the coupes.

**SECTION –5 COST OF HARVESTING**

No change proposed except the fact that the rates sanctioned by the Wage Board Committee, which is presided over by the Chief Conservator of Forest (Territorial), Thane shall be taken into consideration at the time of preparing the Draft Plan.

**SECTION –6 PAST AND CURRENT PRICES**

Latest data regarding the average prices shall be included here.



## **CHAPTER IV**

### **STAFF AND LABOUR SUPPLY**

#### **SECTION –1 ADMINISTRATIVE SET UP**

At present, as per the sanctioned posts, apart from the Deputy Conservator of Forest, who is in charge of the Division, there are 2 Assistant Conservator of Forests, 16 Range Forest Officers, 68 Foresters and 192 forest guards. There are 4 drivers, 1 Office Superintendent, 1 Chief Accountant, 13 Accountants, 2 Surveyors, 17 Clerks. In addition, there are 29 posts of class IV staff as such peons, watchman, Mali and vanmajur. After the sanctioning of reorganization proposal, the above sanctioned posts are subjected to change. Also the 25 posts of Office guards, Special duty posts like Sawmill, Western Ghats Development scheme, Base station and repeater station posts of Forest Guards are already proposed to be transferred over to Mangrove cell. In addition to 2 posts of forester and one post of Mobile squad RFO, Saiwan is also proposed to be handed over to Mangrove cell.

#### **SECTION –2 LABOUR SUPPLY**

No change proposed.

## **PAST SYSTEM OF MANAGEMENT AND THEIR RESULTS**

### **SECTION –1 GENERAL HISTORY OF THE FORESTS**

No change proposed. The brief summary of the current working plan written by Shri Vikas Gupta, Dr.V.D. Chafekar and Shri Jeet Singh IFS shall be included in this section.

### **SECTION –2 ANALYSIS OF PAST SYSTEM OF MANAGEMENT AND TREATMENT PROPOSED**

# Chapter – V

## ANALYSIS OF WORKING PLAN AND TREATMENT PROPOSED

The earlier working plan for Reserve Forests of Jawhar Division on written by Shri Ramanuj Choudhary, IFS and Dr.Devendra Nath IFS .1990-91 to 1999-2000 and 1995-96 to 2004-05.The work of revision of this working plan was taken up in 1990. But due to administrative reasons, it was approved only in the year 1990 and all type of forests ie. R.F., P.F. & Acquired Forest were considered.While drafting the working plan for Jawhar Division, Shri. Ramanuj Choudhary and Dr.Devendra Nath working plan for Reserve Forests and Shri. F.X. Saldhana's Working plan for Protected Forests were taken into consideration.

Current working plan for Jawhar Division was approved by the Govt. of Maharashtra, Revenue & Forest Department, Mantralaya, Mumbai vide letter No. FDM/2009/CR-53/F-2, Dt.14/09/2009 and the Government of India, Ministry of Environment & Forests, Western Region vide letter No. 12-9/2009/ (FOR), 2931 dt.04/12/2009 and was brought into force from 2009-10 to 2018-19. This working plan covered the forest area of Jawhar Division. Present Jawhar forest division includes the forest areas of Jawhar, Wada partly Vikramgad partly and Dahanu partly and Mokhada partly of Palghar district.

The following working circles were constituted.

Sr. No.	Working Circle	Area (ha.)
1.	Protection working circle	7371.319
2	Selection Cum Improvement working circle	1327.453
3	Afforestation working circle	21663.201
4	Improvement Working Circle	39375.686
5	Silvi-Pasture Working Circle	2199.848
6	Old Plantation working circle	827.500
7	Miscellaneous Working Circle	16526.415
	<b>Total</b>	<b>89291.422</b>

The special objects of management, main prescriptions, extent & quality of implementation and their results for each working circle are as under.

### (1) Protection Working Circle

The area included in this circle is 7371.319 ha. This working circle comprised of unworkable areas which were not fit for exploitation as they were too steep and ecologically fragile. On account of the steepness of the area, the site quality was poor due to the soil erosion that had taken place over the years. The special object of the management of this forest area is to protect the existing vegetal cover and prevent deterioration of site conditions to prevent soil erosion and to improve the habitat. Owing to their inaccessibility, the areas have remained protected till date.

**Results & Recommendation:** - In this working circle 8.731% of the area of Jawhar Forest Division is included. The details of works carried out during the plan period are as below.

#### Artificial Regeneration :- The details of plantation works carried are as Follows :-

Working Circle	Year	Coupe No	Total Coupe Area (Ha)	Area Proposed for Treatment (Ha)	Actual Works Carried (Ha)		
					With Fund	Shramdan	Total
	1	2	3	4	5	6	7
PWC	2009-10	I	648.661	-	-	-	-
	2010-11	II	736.628	-	-	-	-
	2011-12	III	786.208	-	-	-	-
	2012-13	IV	731.501	-	-	-	-
	2013-14	V	751.516	-	-	-	-
	2014-15	VI	883.424	-	-	-	-
	2015-16	VII	946.125	20.00	20.00	-	20.00
	2016-17	VIII	756.115	-	-	-	-
	2017-18	IX	629.890	-	-	-	-
	2018-19	X	501.251	-	-	-	-
Total			7371.319	20.00	20.00		20.00

Being situated on the steep slopes ,adequate soil and moisture conservation works have been carried out to prevent further soil erosion from DPDC grants , under Jal Yukta Shivar Abhiyan scheme and predominantly under MNREGA scheme.Details are given below:

### Soil and moisture Conservation works :-

Working Circle	Year of operation	Coupe No.	CCT (Ha )	CNB	Nalla Bands		Vantale		Cement Bandh		Gully Plugging (Ha)	
					No	Cum	No	Cum	No	Cu m	No	Cu m
					1	2	3	4	5	6	7	8
PWC	2009-10	I	3	-	1	702.699	-	-	-	-	-	-
	2010-11	II	-	-	1	164.278	-	-	-	-	-	-
	2011-12	III	-	-	-	1324.98	-	-	-	-	-	-
	2012-13	IV	-	-	4	5727.68	-	-	-	-	-	-
	2013-14	V	-	-	-	1113.09	-	-	-	-	-	-
	2014-15	VI	-	-	-	1613.01 9	-	-	-	-	-	-
	2015-16	VII	-	-	-	983.80	-	-	-	-	-	-
	2016-17	VIII	-	-	-	-	1	400	1	-	-	-
	2017-18	IX	-	-	-	-	-	-	-	-	-	-
Total			3	-	6	11629.5 5	1	400	1	0	0	0

Harvesting of trees have not been carried out. The area have been protected from forest fires but FRA plots allotted under this circle have resulted in discontinuity of the forest patches and made vulnerable to illicit felling, grazing and prone for fire due to the rab burning practice. Cases of encroachment prior to Dec 2005 have been made regularized legally as per the FRA Act 2006. As per the working plan prescription, treatment maps have not been prepared for this area. Grazing in this area is not completely closed as the community forest rights allotted have given rights for grazing and collection of NTFP. But still the area has very good natural regeneration.

### 2) Selection-Cum-Improvement Working Circle

The area included in this circle is 1327.453 ha.

The special objects of the management of the forests in this working circle are-

- i) To remove over mature, dead, dying, diseased trees and opening the canopy to promote natural regeneration.
- ii) To maintain the productivity of the high forest and also to meet local demand for small timber and firewood.

iii) To enrich and improve the composition of the growing stock.

**Results & Recommendation: -**

Total area included in the Selection-Cum-Improvement Working Circle is 1327.453 ha. with 7 Compartments & 10 coupes. During the Plan period i.e. 2009-10 to 2018-19, 20 coupes were available for working but only 11 coupes were actually worked and remaining coupes are not felled since permission for felling was denied by central government. Since the year 2016-17, the Gram sabhas falling under the Felling series No.1 namely sawa and saiwan ranges have passed resolution against the coupe felling activities. Since some portions of these coupes have been allotted under CFR titles to the Gram Sabhas. But in Felling series No.2, areas under West wada range, there are no resistance by Gram sabha as per the field reports.

As per the prescriptions of the working circle, exploitable girth at breast height of teak & other importance miscellaneous species was fixed at 105 gbh. The detail of works carried out is given below.

Year	Coupe No	Total No. of Coupes	Total Area (ha)	Coupes felled		Yield (Cum.)		Remarks
				No of Coupe	Area (ha.)	Timber	Firewood	
2009-10	I	2	141.001	2	141.001	384.009	552.95	
2010-11	II	2	110.092	2	110.092	368.811	835.626	
2011-12	III	2	135.624	1	49.298	184.001	410.00	
2012-13	IV	2	159.493	2	159.493	322.525	444.201	
2013-14	V	2	129.456	2	129.456	148.202	470.944	
2014-15	VI	2	126.572	2	126.340	178.340	223.130	
2015-16	VII	2	130.685	-	-	-		
2016-17	VIII	2	129.454	-	-	-		
2017-18	IX	2	135.622	-	-	-		
2018-19	X	2	129.454	-	-	-		
<b>Total</b>		<b>20</b>	<b>1327.453</b>	<b>11</b>		<b>1585.888</b>	<b>2936.851</b>	

Against 20 coupes allotted to SCI Working Circle,

- 1) VII and VIII Coupes could not be worked because, since Central Government has denied permission to carry out felling.
- 2) 11 coupes were worked and timber 1585.888 Cum & firewood 2936.851 Cum. were harvested.

It has been observed that out of two felling series (1&2), there have been many titles allotted under IFR and CFR as per the provisions of the FRA Act,2006. Which has resulted in honeycombing and fragmentation of this area ,the objective of management of this working circle has not served the intention of improving the composition of the growing stock. Due to the illegal clearing of patches for agriculture and for claiming under FRA, opening up of canopy in many places have been observed. The areas falling under Sawa and Saiwan are already steep slope areas,wherein any felling and clearing of coupes will aggravate the soil erosion . Therefore ecological reasons these areas must not be felled. In addition CFR titles in these areas permits the communities to prepare their own CFR management plan. Recently in the year 2016 and 2017, Gram sabhas have been vociferously demanding for banning of coupe felling in F.S.No.1. Economically also it is causing more loss to the state exchequer due to the felling operations than the benefits arising out of yield from timber and firewood.

**Artificial  
Regeneration  
:- The  
details  
of  
plantation  
works  
carried  
are as  
Follow  
s :-**

Workin g Circle	Year	Coup e No	Tot al Cou pe Are a (Ha )	Are a Pro pos ed for Tre atm ent (Ha	Actual Works Carried (Ha)		
					With Fund	Shramd an	Total

				)			
	1	2	3	4	5	6	7
SCIWC	2009-10	I	141 .00 1	30. 00	30.00	-	30.00
	2010-11	II	110 .09 2	-	-	-	-
	2011-12	III	135 .62 4	-	-	-	-
	2012-13	IV	159 .49 3	50. 00	50.00	-	50.00
	2013-14	V	129 .45 6	-	-	-	-
	2014-15	VI	126 .57 2	50. 00	50.00	-	50.00
	2015-16	VII	130 .68 5	95	95	-	95
	2016-17	VIII	129 .45 4	50. 00	50.00	-	50.00
	2017-18	IX	135 .62 2	25. 00	25.00	-	25.00

It is recommended to discontinue with this working circle in the future plan and include these areas in Improvement Working Circle since these coupe areas fall in very inaccessible terrain with steep slopes and valleys. Many of these coupes are claimed under CFR and they are in proceedings of FRA Act,2006. The communities around these coupes are against the felling of coupes since their claims have not been settled.

**Soil and moisture Conservation works :** - Soil and moisture Conservation works are Carried as per available funds though DPDC and Jalyukta Shivar.



The details are as below.

Working Circle	Year of operation	Coupe No.	CCT (Ha)	CN B	Nalla Bands		Vantale		Cement Bound		Gully Plugging (Ha)	
					No	Cum	No	Cum	No	Cum	No	Cum
					1	2	3	4	5	6	7	8
SC IWC	2009-10	I	-	-	-	-	-	-	-	-	-	-
	2010-11	II	-	-	-	-	-	-	-	-	-	-
	2011-12	III	-	-	-	-	-	-	-	-	-	-
	2012-13	IV	-	-	-	-	-	-	-	-	-	-
	2013-14	V	-	-	-	-	-	-	-	-	-	-
	2014-15	VI	-	-	-	-	-	-	-	-	-	-
	2015-16	VII	-	-	-	-	-	-	-	-	-	-
	2016-17	VIII	-	-	-	-	-	-	1	293.28	-	-
	2017-18	IX	-	-	-	-	-	-	-	-	-	-
	2018-19	X	-	-	-	-	-	-	-	-	-	-
Total			0	0	0	0	0	0	1	293.28	0	0

### (3) Afforestation Working Circle

The total area under Afforestation Working Circle is 21663.201 ha. This working circle included all the understocked areas of Reserved Forest which have not been covered in the Protection, & Selection Working Circle. In addition, the entire area of woodland protected forest scattered over all the ten ranges and in proximity to villages along with forest area which have been acquired under the Maharashtra Private Forests Acquisition Act, 1975 have also been included in this Working Circle.

The special objects of management of this working circle were:

1. To increase the vegetal cover.
2. To check the loss of top soil by adopting suitable soil and moisture conservation measures.
3. To increase the water absorption capacity of the land.
4. To increase the productivity of the land.
5. To raise plantations to meet the demand for small timber, fuel wood, agriculture implements, Bamboo, etc.

**Results & Recommendation: -**

This working circle was given treatment as per the prescriptions of working plan. A total of 1385 ha of area were regenerated artificially. The details of the same are as below:

**Artificial Regeneration :- The details of plantation works carried are as Follows :-**

Working Circle	Year	Coupe No	Total Coupe Area (Ha)	Area Proposed for Treatment (Ha)	Actual Works Carried (Ha)		
					With Fund	Shramdan	Total
	1	2	3	4	5	6	7
AWC	2009-10	I	1096.813	30.00	30.00	-	30.00
	2010-11	II	1129.881	80.00	80.00	-	80.00
	2011-12	III	1111.923	130.00	130.00	-	130.00
	2012-13	IV	1165.54	278.00	278.00	-	278.00
	2013-14	V	1146.637	150.00	150.00	-	150.00
	2014-15	VI	1133.839	370.00	370.00	-	370.00
	2015-16	VII	1080.044	75.00	75.00	-	75.00
	2016-17	VIII	1089.697	50.00	50.00	-	50.00
	2017-18	IX	1106.012	222.00	222.00	-	222.00
	2018-19	X	1041.498	-	-	-	-
Total			21663.201	1385.00	1385.00		1385.00

On an average, the survival percentage of the plantation is 60-70%.

Working Circle	Year of operation	Coupe No.	CCT (Ha)	CNB	Nalla Bands		Vantale		Cement Bound		Gully Plugging (Ha)	
					No	Cum	No	Cum	No	Cum	No	Cum
	1	2	3	4	5	6	7	8	9	10	11	12
AWC	2009-10	I	-	-	3	66089.00	-	-	5	1466.428	1	314.293
	2010-11	II	-	-	-	-	-	-	-	-	-	-
	2011-12	III	-	-	7	8493.476	1	-	-	-	1	9108
	2012-13	IV	-	-	-	761.428	-	-	-	-	-	-
	2013-14	V	-	-	-	100.00	-	-	-	-	-	-
	2014-15	VI	-	-	1	1292.06	-	-	-	-	-	-
	2015-16	VII	15	-	1	355	5	2000	3	879.84	-	-
	2016-17	VIII	15	-	-	-	15	6000	2	586.56	-	-
	2017-18	IX	-	-	-	-	-	-	-	-	-	-
	2018-19	X	-	-	-	-	-	-	-	-	-	-
Total			0	0	9	11001.96	20	8000	5	0	1	9108

Prescriptions of this working circle were implemented to large extent in increasing the vegetal cover by means of AR and NR works. Records of the NR works carried out are not maintained properly and continuity of NR works in the same area in successive years is not done for establishment of the crop.

Many of these plantation sites have been interspersed with FRA plots which have been finally allotted. This has resulted in discontinuity of the fencing of the plantations done and have made plantations vulnerable to grazing and forest fires due to the presence of habitations amidst the plantations.

#### (4) Improvement Working Circle

The total area under Improvements Working Circle is 39375.686 ha. This working circle included all the understocked areas of Protected Forest which have not been covered in the Protection, Afforestation & Selection Working Circle.

The special objects of management of this working circle were:

1. To enrich and improve the composition of the growing stock through various silvicultural operations and artificial regeneration.
2. To utilize the sites optimally so as to harvest the sustained yield in future.
3. To meet the local demands for small timber, fuel wood, agriculture implements, Bamboo, etc

**Results & Recommendation:** -This working circle was given treatment as per the prescriptions of working plan. A total of 39375.686 ha. area were regenerated artificially. The details of the same are as below:-

Artificial Regeneration :- The details of plantation works carried are as Follows :-							
Working Circle	Year	Coupe No	Total Coupe Area (Ha)	Area Proposed for Treatment (Ha)	Actual Works Carried (Ha)		
					With Fund	Shramdan	Total
	1	2	3	4	5	6	7
IWC	2009-10	I	1927.271	64.00	64.00	-	64.00
	2010-11	II	2030.353	450.00	450.00	-	450.00
	2011-12	III	2019.355	521.30	521.30	-	521.30
	2012-13	IV	2013.841	1650.00	1650.00	-	1650.00
	2013-14	V	1919.616	770.00	770.00	-	770.00
	2014-15	VI	1951.757	681.00	681.00	-	681.00
	2015-16	VII	2122.722	796.50	796.50	-	796.50
	2016-17	VIII	1982.247	218.00	218.00	-	218.00
	2017-18	IX	1979.851	271.00	271.00	-	271.00
	2018-19	X	1942.588	-	-	-	-
<b>Total</b>			<b>19889.601</b>	<b>5421.80</b>	<b>5421.80</b>		<b>5421.80</b>

Prescriptions of this working circle like thinning of young pole crop, CBO works and Cleaning operations are not carried out as per the available records. But Artificial regeneration and Natural regeneration have been done during the plan

period. Total of 1227.902 ha in this working circle falls under Private Forest, wherein Artificial regeneration works have not been carried out. Details of FRA plots allotted under this working circle and cases pending at various levels such as SDLC and DLC are not presently available with the division office. Like other working circles, FRA titles issued have caused hindrance to working of the area for raising of plantations since larger patches greater than 10 ha are devoid in this circle.

**Soil and Moisture Conservation works:**

Under various schemes such as DPDC, MNREGA and Jal yukta shivar Abhiyan SMC works have been carried out. Details of which are given under:-

Working Circle	Year of operation	Coupe No.	CCT (Ha)	CNB	Nalla Bands		Vantale		Cement Bound		Gully Plugging (Ha)		
					No	Cum	No	Cum	No	Cum	No	Cum	
					1	2	3	4	5	6	7	8	9
IWC	2009-10	I	-	-	-	-	-	-	-	-	-	200	5306.535
	2010-11	II	-	-	1	1696.65	-	-	-	-	-	100	2377.919
	2011-12	III	-	-	1	5916.400	-	-	-	-	-	-	-
	2012-13	IV	-	-	-	2416.09	-	-	-	-	-	14	657.296
	2013-14	V	-	-	-	-	-	-	-	-	-	-	-
	2014-15	VI	-	-	4	2737.84	1	400	-	-	-	-	-
	2015-16	VII	-	-	5	8483.25	10	4000	1	293.28			
	2016-17	VIII	10	-	9	15269.85	31	12400	9	2639.57	-	-	
	2017-18	IX	-	-	-	-	-	-	-	-	-	-	-
	2018-19	X	-	-	-	-	-	-	-	-	-	-	-
Total			10	0	20	36520.08	42	16800	9	2639.57	314	8341.75	

The area have been protected from forest fires but FRA plots allotted under this circle have resulted in discontinuity of the forest patches and made vulnerable to illicit felling, grazing and prone for fire due to the rab burning practice. Cases of encroachment prior to Dec 2005 have been made regularized legally as per the FRA Act 2006. As per the working plan prescription, treatment maps have not been prepared for this area. Grazing in this area is not completely closed as the community forest rights allotted have given rights for grazing and collection of NTFP. Main improvement coupes have suffered due to the uncontrolled grazing.

## **5) OLD PLANTATION MANAGEMENT WORKING CIRCLE**

The total area under Old Plantation Management Working Circle was 827.500 ha. This Working Circle included successful plantations raised by the Department . The special objects of management of this working circle were:-

- i) To manage teak and miscellaneous plantations by using various tending operations like climber cutting, cleaning, thinning, etc.
- ii) To create best possible conditions of growth for the forest plantations by reducing root competition and by improving hygienic conditions in the stand.
- iii) To produce poles and small sized timber for local consumption.
- iv) To produce high quality timber in future and to maximize returns per unit area.

### **Results and recommendation**

Working plan prescriptions such as thinning and cleaning have not been implemented as per the perusal of division office records. Since some of the plantations have failed due to uncontrolled grazing, illicit felling, forest fires and clearing away of forest land for claiming titles under FRA Act.

## **6) SILVI -PASTURE WORKING CIRCLE**

The total area allotted to this Working Circle was 2199.848 Ha. This working circle comprises of the silvi- pasture forest in small patches along the coastal areas of the Protected forest. This Working Circle will deal with the Silvi pasture forests which have not been managed under any system of management in the past. The special objects of management of this working circle were:-

1. To improve the quality and quantity of fodder in the forest by introducing better varieties of fodder grasses and fodder tree species.
2. To meet the local demand for fodder and thereby to reduce heavy grazing pressure on the forests.

**Artificial Regeneration :- The details of plantation works carried out are as follows :-**

Working Circle	Year	Coupe No	Total Coupe Area (Ha)	Area Proposed for Treatment (Ha)	Actual Works Carried (Ha)		
					With Fund	Shramdan	Total
	1	2	3	4	5	6	7
Silvi PWC	2009-10	I	220.665	-	-	-	-
	2010-11	II	253.658	-	-	-	-
	2011-12	III	188.057	-	-	-	-
	2012-13	IV	184.064	-	-	-	-
	2013-14	V	199.280	10.00	10.00	-	10.00
	2014-15	VI	235.323	-	-	-	-
	2015-16	VII	222.657	-	-	-	-
	2016-17	VIII	223.793	-	-	-	-
	2017-18	IX	225.019	10.00	10.00	-	10.00
	2018-19	X	247.332	-	-	-	-
Total			2199.848	20.00	20.00		20.00

As per the working plan figures for this working circle, already 854.240 ha was under cultivation. Presently major portion of this area have been allotted under FRA titles (238 titles amounting to an area of 384.782 ha as on Dec 2017) thereby failure for raising of fodder grasses plantation can be

attributed to non availability of large patches. Only small patches are available of areas less than 5 ha are available.

### SMC works :

Under various schemes such as DPDC, MNREGA and Jal yukta shivar Abhiyan SMC works have been implemented in this circle. Details are as follows:-

Working Circle	Year of operation	Coupe No.	CCT (Ha)	CNB	Nalla Bands		Vantale		Cement Bound		Gully Plugging (Ha)	
					No	Cum	No	Cum	No	Cum	No	Cum
					1	2	3	4	5	6	7	8
Silvi PWC	2009-10	I	-	-	-	-	-	-	-	-	-	-
	2010-11	II	-	-	-	-	-	-	-	-	-	-
	2011-12	III	-	-	-	-	-	-	-	-	-	-
	2012-13	IV	-	-	-	-	-	-	-	-	-	-
	2013-14	V	-	-	-	-	-	-	-	-	-	-
	2014-15	VI	-	-	-	-	-	-	-	-	-	-
	2015-16	VII	-	-	1	1497	-	-	-	-	-	-
	2016-17	VIII	-	-	-	-	4	1600	-	-	-	-
	2017-18	IX	-	-	-	-	-	-	-	-	-	-
	2018-19	X	-	-	-	-	-	-	-	-	-	-
Total			0	0	1	1497	4	1600	0	0	0	0

## 7) MISCELLANEOUS WORKING CIRCLE

This working circle will include the remaining areas of 16526.415 ha of private Forests (Disputed) Area 10829.380 ha. Eksali plots Area 6735.8326 Ha, Area diverted under FCA 1980 746.751 Ha, Encroachments of 1972-28 305.919Ha, Other miscellaneous areas such as residences, offices ,depot. Nurseries etc - 84.859 Ha. Area which have not been allotted to any other Working Circle. The total area under this working circle is 16526.415ha.

**Result and recommendation:** This working circle including the following areas:-

I. Private Forest (Disputed ) Areas amounting to a total of 10829.380 ha, but final possession of which is not yet with the forest department since pending for inquiry with the collector has been persued for completion with the collector.

II. Eksali forest plots which were given on lease to local villagers for cultivation on yearly basis in the past years, out of which 165 eligible claimants have been allotted an area of 159.561 ha as per provisions of FRA Act,2006. Total land of 353.67 ha of forest leased to 139 eksali plot holders have submerged under water of Surya Dam project in the division. Revenue department had regularized prior to 1980 an area of 446.1615 ha to 194 plot holders prior to 1980. A proposal have



been sent to central government in the year 2000 for regularization of 3016 plot holders an area of 4170.7973 ha .Also rejection of 273 ineligible Eksali plot holders totaling an area of 1765.2041 ha was also carried out.

III. Forest areas which have been diverted under Forest Conservation Act. 1980 for various developmental projects was prescribed nil treatment .

IV. Forest areas which have been encroached for cultivation during the years 1972 to 1978 but is not yet regularized have been allotted titles under FRA Act,2006.

## **CHAPTER VI**

### **STATISTICS OF GROWTH AND YIELD**

#### **SECTION –1 STATISTICS OF RATE OF GROWTH.**

As mentioned in Chapter VIII of Dr.Vikas Gupta, Dr.V.D Chafekar Sri.Jeet Singh Ifs. Plan on page 49, enumeration was carried out during the year 2005-06.

At present, Survey of the Forest Crop has been done by Forest Resources Survey Unit, Nashik along with the active cooperation of Field Staff of Jawhar Forest division in the year 2005-06.

As per the National Working Plan Code -2014, Forest Resource assessment such as growing stock, volume or number of stems, regeneration status, soil organic carbon, ecological study of trees, shrubs and herbs will be carried out by WPO after laying out sample plots systematically on Survey of India topographic sheet on scale of 1:50,000.All the areas will be stock mapped and included in the PWPR-II



**PART II**  
**PART II FUTURE MANAGEMENT**

**1. Basis of Proposal:**

The Forest Area of the Division is as under

JAWHAR FOREST DIVISION - RANGE WISE AREA DISTRIBUTION AS  
PER FORM NO-1

Sr. No	Range	Reserve Forest	Protected Forests	Acquired Forests	Compensatory Afforestation land	Total
1	South Jawhar	67.020	19.260	0.160	0.032	86.472
2	North Jawhar	68.00	19.850	1.910	-	89.76
3	Mokhada	39.72	16.750	-	-	56.470
4	Khodala	29.020	6.320	10.070	-	45.410
5	Sawa	100.73	22.71	0.090	-	123.53
6	Saiwan	75.24	30.75	-	-	105.99
7	West Wada	84.25	29.80	13.66	-	127.71
8	Kanchad	53.16	27.86	2.30	-	83.32
9	East Wada	70.32	17.36	1.410	-	89.09
10	Vikramgad	76.24	24.16	0.190	-	100.59
<b>Total</b>		<b>663.71</b>	<b>214.810</b>	<b>29.79</b>	<b>0.032</b>	<b>908.342</b>

(Area in Sq.km.)

**Change in Area:**

During the plan period, an area of 17928.598 ha is been handed over back to Forest department by Revenue department on 20/11/2017. Remaining area of 792.190 ha is in possession with Revenue department which is been followed up with Collector,Palghar for handing over after removal of encroachments.

The Parliament has enacted a law of the Panchayat (Extension to the Scheduled areas)Act,1996(Act No.40 of 1996).The said Act provides for endowing by the State,the Panchayatsin the Scheduled Areas,with such power and authority as may be necessary to enable them to function as institution of self Govt. Further

it provided the Gram Sabha specifically with the ownership and marketing of minor forest produce.

Govt. of Maharashtra has enacted a law, Maharashtra Transfer of Ownership of Minor Forest Produce in the Scheduled Areas Act,1997 and has also amended Maharashtra Minor Forest Produce(Regulation of Trade)Act,1969(Act no. 45 of 1997) vide which ownership of 33 MFP specified in the Schedule, found in the Govt. land has been transferred to the Panchayats. The Hon.Governor of Maharashtra had modified the existing Act and has given ownership of all MFP to the Gram Sabha vide notification dated 9.8.2014.

Govt. of India enacted “The Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights Act, 2006” to recognize and vest the forest rights and occupation in forest land who have been residing primarily in forests land and dependent on forests for their livelihood needs before 13<sup>th</sup> Dec,2005.

Total of 925.278 ha of Reserve Forests Land was transferred to various project authorities under Forest Conservation Act,1980 during the plan period. However, the status of the land continues to be Reserve Forest. 0.032 sq.km of land was received as compensatory land in lieu of diverted Forest land.

#### **General objects of Managements:**

In line with National Forest Policy,1988 laid down by Govt. of India vide Notification no3-1/86-FP ,dated 07-12-1988 , following are the general objectives of Management:-

1. Conservation of forests and reducing forest degradation
2. Maintenance and enhancement of ecosystem services including ecotourism
3. Enhancement of forest productivity together with establishment of regeneration to improve forest health and vitality as per ecological and silvicultural requirements of the species,
4. Progressively increasing the growing stock and carbon sequestration potential,
5. Maintenance of biological diversity and sustainable yield of forest produce
6. Prevention of soil erosion and stabilization of the terrain and improvement and regulation of hydrological regime
7. People’s involvement including women in planning and management of forests fulfilling socio-economic and livelihood needs of the people, albeit with simultaneous implementation of Indian Forest Act, Wildlife (Protection)Act, Forest Conservation Act, Biological Diversity Act, PESA Act and Forest Rights Act.

## **2. FORMATION OF WORKING CIRCLES**

The following working circles are suggested to be formed for future management

1. Protection Working Circle
2. Improvement Working Circle
3. Afforestation Working Circle
4. Old Plantation Management Working Circle
5. Silvi –Pasture Working Circle
6. Miscellaneous Working Circle
7. Non-Timber Forest Produce (Overlapping) Working Circle
8. Wildlife (Overlapping) Working Circle
9. Joint Forest Management (Overlapping) Working Circle
10. Forest Protection (Overlapping) Working Circle
11. Community Forest Management(Overlapping) Working Circle
12. Community based NTFP Management (Overlapping circle).

## 1. Protection Working Circle

This working circle exists in current working plan and it is retained in new plan with the following recommendations

1. There are two draft notifications of ESZ for
  - a) Tansa Wildlife Sanctuary and
  - b) Western Ghats ESZ.These two Ecosensitive zone should also be part of management of this working circle. If the ESZ are not finally approved, then restrictions of working within 10.00 km around PA will continue.
2. If ESZ is declared, then it is done so by specifying the prohibited, regulated and permitted activities. In such areas only habitat improvement works can be undertaken with the prior permission of the Competent Authority.
3. No other changes are proposed in silvicultural operations.
4. Forest community rights related to community forest resources, minor forest produce, grazing grounds, water bodies, etc. recognized under the provision of the Forest Rights Act, 2006, should be exercised within the framework of sustainable use.
5. Accessible under-stocked areas with good soil depth and more than 5 hectares is presently allowed for planting in current working plan. This limitation on minimum area for taking up planting can be relaxed, which if allowed with species such as bamboo especially in valley portions will increase the vegetation cover.

## 2. Improvement Working Circle

This working circle exists in current working plan and it is retained in new plan with the following recommendations

1. Change in silvi cultural prescriptions for the new plan period is allowing planting with species such as Bamboo either 278 saplings /ha or 400 saplings /ha in Area C ( Pole crop and Old Plantation areas). Since these can act as middle storey in future in the existing crop. Rest of silvi cultural prescriptions no change is proposed.
2. The Improvement cycle has been fixed at 20 years. Since during the current plan period have covered for coupes I to X. The remaining coupes XI to XX to be continued in new plan period as I to X.
3. Areas of Selection Cum Improvement Working Circle -1327.453 ha shall be shifted to this working circle. Which is given as per following table .

Range	Compartment Number	Current Working circle	Proposed working circle	Remarks
Saiwan	18	SCIWC	IWC	Steep slopes, High altitude and vallies which pose difficulty to work.
Saiwan	20	SCIWC	IWC	Same as above
Sawa	33	SCIWC	IWC	Same as above
West wada	177	SCIWC	IWC	Same as above
West wada	180	SCIWC	IWC	Same as above
West wada	181	SCIWC	IWC	Same as above
West wada	182	SCIWC	IWC	Same as above

4. Maximum forest area of 39375.686 ha falls under this working circle in the current workin plan (46.639% of total). The major problem faced is encroachment by tribals in excess to the area as per the allotted titles. Many cases are in appeal stages.
  - a) On account of rejection of such appeals by Collector, eviction of these cases will be undertaken. These encroachments are predominantly for cultivation, these areas are prescribed under Community based NTFP Management (Overlapping circle).
  - b) If appeal cases are accepted then these areas will remain as per current plan .
5. Forest community rights related to community forest resources, minor forest produce, grazing grounds, water bodies, etc. recognized under the provision

of the Forest Rights Act, 2006, should be exercised within the framework of sustainable use.

### **3. Afforestation Working Circle**

This working circle exists in current working plan and it is retained in new plan with the following recommendations

1. There is no changes in silvicultural prescriptions of the current plan.
2. All blank areas of main working circle ie. Protection working Circle, Improvement working circle will be included in this working circle.
3. Forest community rights related to community forest resources, minor forest produce, grazing grounds, water bodies, etc. recognized under the provision of the Forest Rights Act, 2006, should be exercised within the framework of sustainable use.

### **4. Old Plantation Management Working Circle**

This working circle exists in current working plan and it is retained in new plan with the following recommendations

1. There is no changes in silvicultural prescriptions of the current plan.
2. Forest community rights related to community forest resources, minor forest produce, grazing grounds, water bodies, etc. recognized under the provision of the Forest Rights Act, 2006, should be exercised within the framework of sustainable use.

### **5. Silvi –Pasture Working Circle**

This working circle exists in current working plan and it is retained in new plan with the following recommendations

1. There is no changes in silvicultural prescriptions of the current plan.
2. Forest community rights related to community forest resources, minor forest produce, grazing grounds, water bodies, etc. recognized under the provision of the Forest Rights Act, 2006, should be exercised within the framework of sustainable use.

### **6. Miscellaneous Working Circle**

This working circle exists in current working plan and it is retained in new plan with the following recommendations

1. The method of treatment in current working plan for Private Forests(Disputed)Areas is proposed to be continued without any changes.



2. Eksali plots in the division have been allotted under FRA to eligible plotholders.

## **7. Non-Timber Forest Produce (Overlapping) Working Circle**

This working circle exists in current working plan and it is retained in new plan with the following recommendations

1. Following changes needed to be included in method of treatment for Resource Inventory.
  - a) For estimating the production of NTFPs (fruits, flowers, leaves, seeds, etc.) of tree origin, total harvest of the desirable part(s) should be enumerated (for two consecutive seasons from same trees) from at least three trees of different diameter class.
  - b) The fresh and dry weight of each should be recorded. The drying of the harvested parts may be carried out by using a laboratory oven if possible or sun drying.
  - c) The yield of products (wet or dry) obtained should be multiplied by the number of trees of a particular species enumerated for the compartment/village/any other management unit at different diameter class level.
  - d) For estimating the production from shrubs, the useful part should be harvested from at least five plants and the fresh and dry weight of the same would be recorded. The yield of the products would be calculated as described above.
  - e) For estimating the production of herbs, at least 10 to 20 numbers of each species should be harvested and fresh and dry biomass of the useful parts should be determined as described above.
2. Inclusion of storage facilities is proposed for new plan period
3. Under the Harvesting section of the current plan ,prescriptions may be given by WPO for closure of an area for the collection or extraction of particular forest produce for a specified period (closed area); restricting or banning the collection or extraction of any forest produce for certain period or periods of a year (closed season); limits on quantities of any forest produce to ensure sustainable harvesting for the future (sustainable harvesting limits); sustainable harvesting/ collection practices
4. WPO may plan and undertake survey, sampling and assessment for estimation of few prioritised species of NTFPs to start within the selected grids.

## **8. Wildlife (Overlapping) Working Circle**

This working circle exists in current working plan and it is retained in new plan with the following recommendations

1. There are two draft notifications of ESZ for
  - a) Tansa Wildlife Sanctuary and
  - b) Western Ghats ESZ.

If ESZ is declared, then it is done so by specifying the prohibited, regulated and permitted activities. In such areas only habitat improvement works can be undertaken with the prior permission of the Competent Authority.

2. In areas where CFR title have been given, the CFRMC should be sensitized by the DCF while preparing their own CFR Management Plan which will be in tune with the working plan prescriptions of this working circle.

## **9. Joint Forest Management (Overlapping) Working Circle**

This working circle exists in current working plan and it is retained in new plan with the following recommendations.

As per the Govt. of Maharashtra GR dated 5-10-2011 and corrigendum dated 22-10-2011 instructions regarding strengthening of the JFMCs and attaching JFMCs to the Gram Sabha and Guidelines for dovetailing the schemes of various departments under JFMC to be included.

Also in places where CFRMC exists, JFMCs can be merged with CFRMCs if the latter voluntarily agrees thereby avoiding potential conflicts in access and benefit sharing of resources and its sustainable utilization. Every effort should be taken by the territorial DCF to ensure that monitoring of monthly meeting of JFMCs and micro plan prepared should be broadly in consonance with the working plan prescriptions.

## **10. Forest Protection (Overlapping) Working Circle**

This working circle exists in current working plan and it is retained in new plan with the following recommendations.

1. Real time monitoring of forest fires being carried out by FSI using MODIS sensor fire alerts. All field staff must register with FSI Dehradun for getting fire alerts and should give online feedbacks on forest fires which could help estimate the actual loss of forest strata as well as the loss caused to top soil.

2. Online booking of POR through PDAs and disposal of offences should be monitored regularly.
3. Submission of Patrolling track of field staff provided with PDAs should be institutionalized.
4. Vehicle tracking system of patrolling cars will help in protection measures.
5. Eviction of all Encroachment cases wherein finalization of FRA claims and rejection by collector have been made to be undertaken in phased manner following laid down procedure for eviction.
6. Application of modern technologies such as Geomatics in encroachment mapping, boundary demarcation etc to be undertaken.

## **11. Community Forest Management(Overlapping) Working Circle**

This is new working circle proposed in the new plan period. This will include the areas wherein CFR titles have been already allotted and which will be allotted in future .

A total of 85 CFR titles totaling an area of 4651.919 ha have been allotted so far in Jawhar division which includes forest area under FDCM. These areas will be treated as new category of Forest area and recorded as CFR areas in. As per the provisions of the provisions of the Act, The authority right to protect, regenerate or conserve or manage any community forest resource which were traditionally protected or conserved for sustainable use lies with the Gram Sabha. Each Gram Sabha is free to develop its own simple format for community and management plan of CFR areas. As per rules dated 6-9-2012 –CFRMC will prepare a Conservation and Management plan and integrate with Working plan of Forest Department with modifications as may be considered necessary by CFRMC. Following points are proposed in this working circle:

1. There is a need for resource mapping by the concerned DCF in these areas.
2. Boundary demarcation will be done and to be clearly established on grounds.
3. Record of Rights and Form 1 will be revised and copy of same to be given to all concerned villages.
4. Institutional support by department for post claim support and handholding of CFR titleholders in preparation of their plan.
5. Convergence by various departments for supporting CFR management
6. Special efforts in the form of good practice guidance, capacity building, orientation, provision of incentives for the exercise of rights would need to be provided not only preparation of working plans of these areas but also for

creation of various working circles as per the prevailing conditions of the division to maintain sustainability of these forests.

#### 7. Provision of funds from TSP for undertaking activities under FRA-2006

<b>Abstract</b>			
<b>Division</b>	<b>Range</b>	<b>CFR Titles</b>	<b>Area ha.</b>
Jawhar	Mokhada	6	257.010
	South Jawhar	4	274.360
	North Jawhar	6	534.159
	Sawa	16	1013.080
	Saiwan	3	1631.900
	West Wada	19	415.410
	East Wada	5	91.000
	Vikramgad	1	30.000
	Kanchad	25	405.000
	Grand Total	85	4651.919

## **12. Community based NTFP Management (Overlapping circle)**

This is new working circle proposed in the new plan period. This is proposed to tackle the areas which will be regained after eviction of illegal claims which will be settled after finalization of IFR claims by Collector. Since demarcation of boundaries of IFR title holders have not been carried out, there are many cases wherein title holders were in possession of land more than the title allotted. Most of such cases have appealed again. In event of rejection of such claims for more area and other cases after finalisation of claims. Eviction will be done as per IFA, 1927. All such areas which were under ineligible cultivation need to be managed in a way to prevent future encroachments and also to be sustainably utilized for benefit of local for meeting out their NTFP and other usufructs derived from forests. Either the local community or the JFMC will be entrusted with responsibility to conserve and manage all such evicted areas.

Following suggestions are proposed:

1. Demarcation of IFR plot holders on ground as per the title and where possible by TCM of size 1.9 m\*1.00m \*0.60 m.
2. Erection and Geotagging of the boundary pillars.
3. Mapping of evicted areas to prevent future encroachment.
4. Involving local community/JFMC to plan for raising of NTFP or Fruit bearing species plantation of their choice which is locally available and soil moisture conservation works if needed.
5. Under MNREGA, NTFP plantations and carrying out soil moisture conservation works of all such evicted areas in a phased manner.
6. Sharing of NTFP and other benefits among the local communities/JFMCs.

### 3. CHAPTERS

#### 1. SURVEY AND DEMARCATION

Following suggestions are made

1. Forest areas of the division have been demarcated by loose boulder cairns. These are not properly maintained. Demarcation should be done by cement masonry pillars.
2. Demarcation of boundaries of IFR plot holders have not been carried out so far. This should be done .
3. Digitized map of Beat, Round, Range are not available. These shall be prepared and provided to all staff.
4. Old maps are available on 1:50000 scale. Blank copies of the toposheets of the scale 1:15000, which are required for preparation of working plan are not available.
5. A revised reference map has to be prepared showing the newly added areas and Acquired Forest areas and deleting the disforested areas.
6. Village maps showing the protected forests have been procured. These shall be incorporated into the toposheets.

The maps required are given below and the same will be procured from the Director , Survey of India, Pune.

Toposheets/maps	Scale	Number of copies required	Number in Stock	Required to be procured
Toposheets	4"=1 mile	20*6=120	Nil	120
Toposheets	8"=1 mile	72*6=432	Nil	432
Toposheets	1:50000	9*6=54	Nil	54

#### 4. ENCROACHMENT PREVENTION AND EVICTION

Jawhar division is affected severely by problem of ineligible claims under FRA,2006. Majority of cases are in appeal for claiming more area than what have been allotted, pending finalization of all such claims and rejection by Collector, no action can be taken till that time. This has resulted in honeycombing of all the compartments of the division. Rangewise details of these encroachments are as below

Sr. No	Range	Total Area of Range (Ha)	Details of Encroachment		
			Area of claims approved under FRA 2006 Act (ha)	Area in pending claims approved under FRA 2006 Act (ha)	Encroachment without any claims under FRA 2006 Act (ha)
1	Mokhada	5646.465	669.320	Not Available	0
2	Khodala	4540.779	325.740	Not Available	0
3	South Jawhar	8647.338	1938.830	Not Available	0.3576
4	North Jawhar	8975.146	2094.671	Not Available	0
5	Sawa	12351.511	1934.310	Not Available	0
6	Saiwan	10599.235	1917.160	Not Available	0
7	East Wada	8912.966	848.293	Not Available	0.1575
8	West Wada	12769.607	1160.420	Not Available	123.7802
9	Kanchad	8332.608	1214.784	Not Available	0
10	Vikramgad	10059.221	1918.714	Not Available	0
<b>Total</b>		<b>90834.876</b>	<b>14022.242</b>		<b>124.2953</b>

The areas without any claim under FRA shall be immediately evicted in phased manner and those having proceedings under FRA,2006 shall be evicted after finalisation of claims.

Objectives of the management

1. Identification and preparation of record of all encroachment areas.
2. To survey and demarcate the area which has been approved by the competent authority
3. To identify the pending cases under FRA,2006.
4. To evict the ineligible encroachments
5. To manage the area under Community Based NTFP(Overlapping circle)

#### **Recognition and approval of claims:**

List of ineligible encroachers will be prepared by the concerned Range forest officers. All illegal encroachment and the claims, decided in favour of Government under FRA 2006 will be evicted in phased manner.

### **Eviction procedure**

1. The details of encroachments should be properly recorded in the forest records such as POR,spot panchnama,location map etc.
2. Provision of IFA,1927 will be invoked while dealing with all encroachment cases.
3. The help of revenue and Forest department will be taken to evict the encroachments.

### **Treatment proposed**

As per the prescriptions given in Community based NTFP (Overlapping Circle)

## **4. MISCELLANEOUS REGULATIONS**

### **MAINTENANCE OF BOUNDARIES**

All Reserve Forest of this division is demarcated with non forest lands. Geotagging of pillars/cairns is already done and details have been maintained in pillar registers. However, the condition of cairns is not satisfactory and they are also not maintained properly. After the allotment of forest plots, neither erection of pillars nor demarcation of boundaries have been done. This should be done at the earliest to prevent future encroachments.

A Reorganization proposal of entire division wherein range boundaries will be in co-terminus with revenue boundaries for efficient administration is already sent to higher offices. As per the reorganization proposal, the division will be having Forests area falling under 4 talukas namely, Jawhar, Mokhada, Vikramgad and Wada only, excluding Dahanu taluka forest area. The entire Saiwan range totaling an area of 110.370 sq.km falling under Dahanu taluka is proposed to be included under Dahanu Forest Division. Similarly from Thane division and Shahpur division, parts of Wada taluka and Mokhada taluka totaling an area of 28.61 sq.km and 27.00 sq.km is proposed to be part of Jawhar division. Also, an area of 72.57 ha of Dahanu division falling under Vikramgad taluka is proposed under Jawhar division. Thereby total of 126.152 sq.km is proposed to be added to the total area of the division after approval of the proposal.

It is also proposed to have permanent structure of boundary pillars after the approval of above reorganization proposal.

### **FOREST PROTECTION STRATEGIES**

The division have faced severe illicit felling, encroachment, fire incidences etc during the current plan period. The division has border with Dadar & Nagar Haveli ( UT) and also borders with Tansa Wildlife sanctuary which are rich in valuable Khair trees.

Govt. of Maharashtra vide their Resolution dated 13 August 2014 have fixed the norms of protection. As per the Resolution all beats are declared as Hypersensitive and all beats are to be inspected as per the prescribed norms.



Checking of sawmills as per the norms should be done, every RFO(T) to inspect atleast 8, ACF-4 and DCF-2 sawmills.

Annual protection plan to be prepared which will provide details of protection measures to check offences such as illicit felling, fire ,encroachment etc and it needs to be revised midterm for any corrective measures. Quarterly Moving Average (QMA) of the preceeding three years to be analysed and targets should be set for each quarter to reduce by atleast 10% the QMA. As per prescriptions given in Forest Protection(Overlapping) Working Circle strategies should be implemented. Joint patrolling with nearby ranges and divisions in sensitive beats along with regular and surprise naka bandis should be conducted to reduce the offences. Protection huts at vulnerable locations to be identified and Involvement of local JFMCs to be undertaken for protection measures. Provisions of secret Service Funds to be utilized effectively by Range forest officers.

The details of category wise offences registered during last ten years are as under.

year	No. of Offences registered					
	Illicit Felling	Encroachment	Wild Life	Fire	Others Grazing	Total
2009-10	1823	2	32	23	0	1880
2010-11	1193	4	15	17	1	1230
2011-12	850	5	5	4	0	864
2012-13	1111	0	5	6	0	1122
2013-14	1150	0	4	3	0	1157
2014-15	1470	0	3	2	0	1475
2015-16	784	4	14	23	1	826
2016-17	857	0	30	16	0	903
<b>Total</b>	<b>9238</b>	<b>15</b>	<b>108</b>	<b>94</b>	<b>2</b>	<b>9457</b>

Vehicles have been provided at range level for protection purpose. These vehicles have been tracked for their movement and it should be done continuously in the new plan period. Details of vehicles are given below.

Sr.N	Designation of the Officer	Type of vehicle	vehicle No
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<b>o</b>	<b>using vehicle</b>		
1	Dy Cf Jawhar	Sumo Gold	MH -48 C- 0357
2	ACF ( Forestry & wildlife ) Wada	Jeep	MH - 04 AN 3148
3	RFO MS WADA	Tata Sumo	MH - 04 AN 3162
4	RFO MS Jawhar	Pick Up	MH - 04 AN 386
5	RFO Kanchad	Tata Xenon Pick up Van	MH - 48 C - 0314
6	RFO S.Jawhar	Tata Xenon Pick up Van	MH - 48 C - 0329
7	RFO N.Jawhar	Tata Xenon Pick up Van	MH - 48 C - 0311
8	RFO Mokhada	Tata Xenon Pick up Van	MH- 48 C- 0340
9	RFO Khodala	Tata Xenon Pick up Van	MH- 48 C - 0305
10	RFO Sawa	Tata Xenon Pick up Van	MH -48 C- 0313
11	RFO Saiwan	Tata Xenon Pick up Van	MH- 48 C - 0330
12	RFO West Wada	Tata Xenon Pick up Van	MH -48 C- 0304
13	RFO East Wada	Tata Xenon Pick up Van	MH -48 C0312
14	RFO Vikramgad	Tata Xenon Pick up Van	MH 48 C- 0306
15	RFO Mokhada	Super Splendor	MH - 04 EP 65
16	RFO Mokhada	Super Splendor	MH - 04 AN 1050
17	RFO S.Jawhar	Super Splendor	MH - 04 EP 62
18	RFO Sawa	Super Splendor	MH - 04 EP 63
19	RFO Saiwan	Super Splendor	MH - 04 EP 64
20	RFO East Wada	Super Splendor	MH - 04 EP 67

### Checkposts:

There are six checkposts operating in the division to prevent illegal transport of forest produce ,the details of which is given below:

Sr.No	Range	Place of Check post	Name of road
1	Mokhada	Nilmati	Jawhar - Nashik Road
2	Khodala	Khodala	Kasara - Mokhada Road / Tribakshwar - Wada
3	West Wada	Desai	Wada - Parli Road
4	West Wada	Khandeshwari	Wada - Bhivandi Road
5	Saiwan	Gadchinchila	Khanvel - kinhvali Road
6	Saiwan	Saiwan	Kasa - Udhwa Road

### FIRE PROTECTION

The fires pose serious threat to the biodiversity and ecology and have caused serious damage to the forest. Natural regeneration of teak and other valuable species are affected due to the annual fire. In hilly terrains, fire extinguishing is very challenging task. Annual fire protection plan should be prepared and implemented as per the prescriptions given in Forest Protection (Overlapping) Working circle.

Real time monitoring of forest fires being carried out by FSI using MODIS sensor fire alerts. All field staff must register with FSI Dehradun for getting fire alerts and should give online feedbacks on forest fires which could help estimate the actual loss of forest strata as well as the loss caused to top soil. Details of fire incidences in the current plan period is given below:

Area affected by forest fire

year session	Number of beat/compartment affected	Frequency of fires (no of fire incidences in a season/year)	Total Forest Area affected (ha)	Trend to the last assessment year/season
2009-10	23	23	149.00	Increased
2010-11	17	17	93.50	Decreased
2011-12	4	4	34.00	Decreased
2012-13	6	6	30.12	Decreased
2013-14	3	3	15.50	Decreased
2014-15	2	2	27.00	Increased
2015-16	23	23	251.00	Increased
2016-17	16	16	80.23	Decreased
Total	94	94	680.347	