

**OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS,
(HoFF) MAHARASHTRA STATE, NAGPUR**

131 OCT 2013 Van Bhawan, Ramgiri Road, Civil Lines, Nagpur 440001.

No.D-14/WP/NR&AR/(13-14)/⁷⁰⁸/13-14

Nagpur, dated 24th October 2013.

To, Chief Conservator of Forests (T)

(All)

To,

Chief Conservator of Forests,
Working Plans (All)

To,

Conservator of Forest,
Working Plan, (All)

peefcpam
1/11
pceefcpam

Sub :- Minutes of the meeting of CCF (T)/ CCF(WP)/CF (WP)/DCF (T) (All) held on 15/10/2013 under the chairmanship of PCCF (P & M) M.S., Nagpur on Implementations of working plan prescriptions in respect of NR & AR.

A meeting of CCF (T), Amravati, Yavatmal, Nagpur, Gadchiroli, Chandrapur, Dhule & Thane /CCF (WP)/CF (WP)/ DCF (T) was organized under the chairmanship of Dr. Ramanuj Choudhary, PCCF (P & M) M.S., Nagpur in Van Bhavan on 15/10/2013 to discuss various practical aspects/problems in carrying out operation related to Natural Regeneration /CBO/ Cleaning in forest areas as per approved Working Plans in order to streamline these activities. The minutes of the said meeting are attached for information & necessary action.

Encl :- As above

Draft approved by PCCF (P & M) M.S., Nagpur

[Signature]
For, Principal Chief Conservator of Forests,
(Production & Management) M.S. Nagpur.

Copy forwarded with compliments along with enclosures to :-

- ✓ Principal Chief Conservator of Forests, (HoFF) M.S., Nagpur,
- Principal Chief Conservator of Forests, (Wildlife) M.S., Nagpur.

Copy along with enclosures forwarded to :-

- Additional Principal Chief Conservator of Forests (CAMPA), M.S., Nagpur.
- Additional Principal Chief Conservator of Forests (NTFP & Evaluation), M.S., Nagpur.

प्रमदस (उ.व.व.)


02 NOV 2013

3. Additional Principal Chief Conservator of Forests (BP & D), M.S., Nagpur.
4. Additional Principal Chief Conservator of Forests (Conservation), M.S., Nagpur.
5. Additional Principal Chief Conservator of Forests & Nodal Officer, M.S., Nagpur.
6. Additional Principal Chief Conservator of Forests (R & U), M.S., Nagpur.
7. Additional Principal Chief Conservator of Forests (HRM & Subordinate Services), M.S., Nagpur.
8. Additional Principal Chief Conservator of Forests (IT, Policy & Strategic Planning), M.S., Nagpur.
9. Additional Principal Chief Conservator of Forests (Protection), M.S., Nagpur.
10. Additional Principal Chief Conservator of Forests, (Working Plan-East) Nagpur.
11. Additional Principal Chief Conservator of Forests, (Working Plan-West) Pune.
12. General Manager, WFP & Afforestation Region, FDCM Ltd., Nagpur.

Copy along with enclosures forwarded to :-

1. Dy. Conservator of Forests (T) (All)

Draft approved by PCCF (P & M) M.S., Nagpur


**For, Principal Chief Conservator of Forests,
(Production & Management) M.S. Nagpur.**

**MINUTES OF MEETING OF CCF (T)/CCF(WP)/ CF(WP)/ DCF (T) HELD
UNDER THE CHAIRMANSHIP OF PCCF (P&M) M.S., NAGPUR IN VAN
BHAWAN, ON 15/10/2013.**

A meeting of CCF (T), Amravati, Yavatmal, Nagpur, Gadchiroli, Chandrapur, Dhule & Thane/CCF (WP)/CF (WP)/ DCF (T) was organised under the chairmanship of Dr. Ramanuj Choudhary, PCCF (P&M) M.S., Nagpur in Van Bhavan to discuss various practical aspects/problems in carrying out operation related to Natural Regeneration /CBO/ Cleaning in forest areas as per approved Working Plans in order to streamline these activities. The list of officers who attended the meeting is enclosed as **Annexure No. I.**

1. At the beginning Shri Shree Bhagwan APCCF (BPD) M.S., Nagpur welcomed all the officers present in the meeting and briefly introduced the objective of the meeting & informed about the various prescriptions & on-going operations related to Natural Regeneration / CBO in various forest divisions of the State as per approved working plan. He told that prescriptions for these activities in most of approved Working Plans are mostly identical. Only these operations are not monitored at the level of CCF (T)/DCF (T). He emphasised that maintenance of existing Natural Regeneration of valuable important species (both seed origin & coppice origin) is very important for protection & development of forests and to restore healthy growing stock & maintaining the overall stocking of forest. Since these seedlings would have to survive overcoming all odds of natural calamity and are indigenous/local in the area, conservation, care & maintenance of these seedlings would result in better Forest cover at low cost.

2. The chairman of the meeting Dr. Ramanuj Choudhary, PCCF (P&M) M.S., Nagpur subsequently briefed the officers on imperatives of the care for NR and informed that various operation for protection & development of natural regeneration of important species have been prescribed in most of the approved Working Plans, wherever it is found in adequate quantity. He also emphasised that regeneration process is extremely important to restore the health and overall productivity of the forest. However, since these activities have not been adequately monitored at higher level and therefore it has become essential to discuss and review the implementation process of prescriptions in approved Working Plans in respect of natural regeneration works for better development and conservation of forest.

3. Dr. Mohan Jha, CCF (T) Amravati told that natural regeneration can be secured by systematic weeding commenced in first rainy season and continued thereafter until the plants are free from the risk of suppression. Mr. Troupe, the known Silviculturist has mentioned in his monumental work that in deciduous forests teak seedlings suffer from desiccation, which needs mulching individually to reduce adverse impacts. He told that our past effort failed due to:

- Lack of enough attention and systematic approach.
- General weed removal, climber cutting was given importance and no attention was given on weeding and mulching of individual promising natural seedlings.
- No follow up was done and record keeping was poor.
- It was neglected due to low investment strategy.

He told to realize the importance of simple, low cost strategy vs costly uncertain AR. NR Prescriptions of working plan needs to be interpreted by CCF and in case of difficulty/ confusion should be clarified in consultation with CCF (WP)/ CF (WP). Following working sequence for NR was enumerated by him:

- Coupe demarcation and treatment map preparation to be done one year in advance of main felling/ *harvesting year*.
- In year of main felling, in B type area preparation of detail treatment map and estimates for NR for 3 years should be done. Putting identification marks on seedlings to be tended should be ensured.
- In year subsequent to main felling/ harvesting, CBO along with two weedings and one soil working to available NR and singling of coppice growth from rooted stock should be done.

For this he has prepared a three year model scheme in Amravati Circle, which was circulated and also attached with this minute. Respective CCFs can modify it according to local conditions.

He told that success can be achieved in NR by following simple thumb rules:

- Giving importance to good record (plantation register/ journal) keeping like AR.
- Management of identified NR should be strictly done up to three years.
- Involvement of JFMCs should be given importance.
- Giving benefit to JFMCs from cutback, stump dressing and protection grant.

According to him there will be huge cost saving in items like:

- Nursery items,
- Pits digging and pits filling,
- Transportation & planting,
- Casualty replacement
- TCM.

Cost will be needed only for

- Identification of seedlings,
- Applying mark/tag on individual seedlings
- Weeding/ mulching
- Protection

4. Shri T.K.Choubey, CCF (WP) Nagpur presented a PPT showing various existing prescriptions for tending of NR, CBO & cleaning. He informed that it has been observed that natural regeneration of important species have not been properly nursed to get an established plant. He brought to the notice of all about tremendous grazing pressure on forest & most of the areas having tremendous potential of supporting natural regeneration being burnt every year. Because of these adverse factors, the forest areas are getting degraded. To restore healthy growing stock & overall stocking of forest, it is very important to protect & preserve the natural regeneration of valuable species. He told that as per present prescription in many working plans marking is one year in advance of the main felling. Thereafter tending of NR & artificial regeneration in B (B1 & B2) type of areas respectively and harvesting over C & D type of areas are carried out simultaneously in the next year. Finally CBO are carried out in the following year of main felling & cleaning in the 6th year.

He told about practical difficulties in carrying out tending of NR & artificial regeneration in B-type areas & harvesting in C & D type of areas of same coupe in the same year, which damages the established seedlings of seed origin & coppice shoots. Therefore, it is necessary to carry out tending of NR & coppice shoot/artificial regeneration in B-type areas along with CBO works in harvested area (D-type) next year of main felling, which will get better result. He told that such deviations of schedules of tending of NR being minor in nature, can be approved by APCCF (WP) after getting deviation proposal from CCF (T). Cleaning in the 6th year from the main felling required to be done.

5. Thereafter officers present in the meeting expressed their views/problems in respect of these activities in their circles/divisions.

6. On the basis of above discussion, the officers present in the meeting unanimously opined to identify important valuable seedlings of seed origin & coppice origin shoots in the first year at the time of main felling & to carry out tending of NR & coppice shoot in B-type of area along with CBO works in harvested area (D-type) next year of main felling, which would give better result. The officers present in the meeting unanimously agreed to implement following prescriptions to carry out tending of natural regeneration & CBO for protection & development of forests.

1. For protection & development of natural regeneration of important species (both seed & coppice origin) as well as for management of malformed rooted stock/ shoots, tending of NR & rooted stock have to be done properly & in proper time.

Estimates will be prepared and technically sanctioned, administratively approved by Competent Authority as per G.R. No. MSC-2011/C.R.175/F-5 dated 30/9/2011. Plantation register will be maintained on the lines of AR areas.

2. All seedlings and saplings of seed origin of valuable species, more than 60 cm in height as well as healthy coppice shoots would be identified in the first year, which will be nursed as future crop. Spacing operations, if required, would be carried out to leave nearly 400 saplings per ha at an average of 5 m spacing. Spacing out operation may be in favour of ecologically valuable species and species rarely found in the area.
3. Tending of Natural Regeneration & coppice shoot management, Cut-back-operation (CBO) & Artificial Regeneration may be carried out in the next year of main felling.
4. All treatment type areas should be shown distinctively on the map, including the areas suitable for planting, areas having adequate promising natural regeneration & rooted stock and areas prone to soil erosion. For this purpose, grid maps (100 m X 100 m) with GPS reading should be used, which is available in respective Working Plan office.
5. Immediately, after completion of demarcation of the coupe, RFO should prepare the *Treatment map* of the coupe by clearly showing various *Treatment-type* areas by laying a base line and 100 m X 100 m grid on the ground as well as on the map. The concerned ACF will verify the treatment map and make corrections, if necessary, before submission to the DCF for approval.
6. The treatment map should bear the date of preparation by the Range Forest Officer and the date of verification by the Assistant Conservator of Forests and their official seals and signature with name.
7. Preparation of treatment map may preferably be done one year in advance of the main felling. Timely preparation would facilitate necessary checking and corrections, if any in time.
8. Demarcation of areas & preparation of treatment map should be carried out under the close supervision of the RFO and under guidance of ACF concerned. DCF should himself inspect at least 50 % of coupes to ensure proper demarcation of areas suitable for *Natural Regeneration & Rooted Stock Management*.
9. *Coupe Demarcation Certificate* for Natural Regeneration should be given by RFO in prescribed format, which should be verified on ground for suitability of such areas for NR works by ACF & countersigned/attested.
10. Immediately after seeking approval of the treatment map, site-specific Work Plan for the entire coupe should be prepared by the RFO, verified by the ACF concerned and approved by the DCF.
11. Action Plan (Estimates) should be prepared for each working coupe on the basis of treatment prescribed for various *Treatment-types areas* marked on the treatment map and got approved by the competent authority, well before the start of main felling.

12. As per requirement of site, weeding, soil working should be proposed & it should be done after inspection *of site by CCF*. Model estimate for tending of NR as per the prescription of approved Working Plans should be approved by concerned CCF (T).
13. The areas poor in natural regeneration should be artificially regenerated by Teak, important miscellaneous species and Bamboo as per the actual site condition.
14. Involvement of JFMCs, giving benefit to JFMCs from cutback, stump dressing etc. should be considered as per government guidelines.
15. The natural regeneration should be assisted and encouraged by soil working and mulching around them, wherever needed as per provisions of approved Working Plan in the following manner.
16. **TENDING OF NATURAL REGENERATION.**

First Year Operations i.e. subsequent to main felling year: Weeds in one-meter diameter around saplings of valuable species should be cleared during the first week of July/ August. Uprooted weeds, grasses and leaf-litter should be mixed in the upper layer of soil as the organic mulch and facilitate loosening and aeration of the soil by worms and insects. One soil working should be carried out in October/ November.

Second year operations: The soil working should be repeated in the following year in the month of October in the seedlings of seed origin. However, one scrap weeding of one-meter diameter should be carried out in the first week of August/October around the shoots of seedlings of coppice origin within the rootstock management area.

Third year operations: Singling of coppice shoots, management of damaged and malformed saplings, climber cutting and shrub clearance should be repeated as third year operations.

17. **ROOT STOCK AND COPPICE MANAGEMENT :-** In the areas where there are no sufficient seedlings of seed origin (*at least 400 healthy and established saplings*) are found, the existing root stock should be managed to increase the density and productivity of the crop. Preference should be given to encourage the ecologically valuable species. Tending of rootstock (ecologically valuable species) in the B-1 type may be carried out as following :


- **Singling of Coppice Shoots:** One healthy and promising coppice shoot will be retained on the stumps and the rest be removed. However, coppice shoots interfering with promising saplings of seed origin would be removed. Such coppice shoots should also be close enough to the ground so that it would not topple after gaining volume and weight and would be able to develop root system of its own subsequently.

- **Coppice Management of Damaged and Malformed Saplings:** The saplings and poles of up to 45 cm gbh having one third of the stem damaged and malformed should be coppiced by cutting flush to the ground. Such coppicing, however, should not expose the ground, causing erosion and leading to soil loss. Poles having at least 2.50 meter of clean bole would not be treated as malformed.
18. Instructions issued by the then APCCF (P &M) M.S., Nagpur dated 2nd July 2010 for demarcation & preparation of treatment map should be followed strictly. The letters issued in this regard from this office as well as from Government have been attached as **Annexure No. II.**
 19. All such sites selected for Tending of Natural Regeneration & Root Stock and Coppice Management should be *geo-referenced on the digital map of that division by taking GPS reading* of at least four corners of the said site, which may be compared latter with the Satellite imagery of division for any change in vegetation cover.
 20. A proper record, in the form of NR Register, should be maintained at Range level as well as Division level regarding all activities of Regeneration. Records such as Register, No. of seedlings identified, cleaned saplings, maps, GPS reading, operations, photographs etc. should be maintained on regular basis.
 21. All entries should be made in the relevant *Coupe Control Forms and Compartment History Forms*. In case of Artificial Regeneration, proper Plantation Registers should be maintained at Range as well as Division levels.
 22. In Case of any deviation from the prescriptions of approved Working Plans, proposal for deviation should be submitted and got approved by competent authority in time.

7:00 The chairman in the concluding remarks stressed the need for carefully going through the prescriptions of respective Working Plans and ensure that any deviations are needed, it should be discussed and got approved with competent authority. The training of field staff and translation of prescriptions in Marathi for field staff was also emphasised. With this the meeting concluded with thanks from the chair for attending the meeting and good contribution through discussion and sharing of experience.

Encl. : Annexure No. I & II.

Draft approved by PCCF (P & M) M.S., Nagpur


For, Principal Chief Conservator of Forests,
(Production & Management) M.S. Nagpur.

ANNEXURE No. I

S.N.	Name		Designation
1	Dr. Ramanuj Choudhary	:-	PCCF (P &M) M.S., Nagpur
2	Shri A.S.K.Sinha	:-	APCCF (Conservation) M.S., Nagpur
3	Shree Bhagwan	:-	APCCF (BPD) M.S., Nagpur
4	Shri S.C.Gairola	:-	APCCF & Nodal Officer M.S., Nagpur
5	Shri M.Karukaran	:-	APCCF (Working Plan-East), Nagpur
6	Shri R.S.Yadav	:-	GM, WFP & Afforestation Region, FDCM Ltd., Nagpur
7	Smt. Sunita Singh	:-	CCF (T), Dhule
8	Shri A. Ashraf	:-	CCF (Budget & JFM) Nagpur
9	Dr. S.H. Patil	:-	CCF (T) Nagpur
10	Dr. Mohan Jha	:-	CCF (T) Amravati
11	Shri S.P. Thakre	:-	CCF (T) Chandrapur
12	Shri K.P. Singh	:-	CCF (T) Thane
13	Shri T.S.K. Reddy	:-	CCF (T) Gadchiroli
14	Shri T.K. Choubey	:-	CCF (WP) Nagpur
15	Shri Yashveer Singh	:-	CF (WP) Chandrapur
16	Shri Praveen Chavan	:-	CF (WP) Yeotmal
17	Shri Chandramore	:-	CF (WP) Gadchiroli
18	Shri P.N. Bhamre	:-	CF (W) Amravati
19	Shri V.T.Ghule	:-	DFO (Planning), Amravati
20	Shri V.B. Thakre	:-	DCF (T) Bhandara
21	Shri S.V.Ramarao	:-	DCF (T) Gondia
22	Shri S.L. Thavre	:-	DCF (T) Brahampuri
23	Shri M.A.Reddy	:-	DCF (T) Wadsa
24	Smt. Lakshmi	:-	DCF (T) Gadchiroli
25	Shri M.M. Kulkarni	:-	DCF (T) Central Chanda
26	Smt Ninu Somraj	:-	DCF(T) Amravati
27	Shri D.D.Gujela	:-	DCF (T) Buldhana
28	Shri Jitendra Ramgaonkar	:-	DCF (T) Chikhaldara
29	Shri S.V.Allurwar	:-	DCF (T) Pusad
30	Shri Ramesh Kumar	:-	DCF (T) Allapalli
31	Shri S.G.Halmare	:-	DCF (T) Bhamragarh

32	Shri Anwar Ahmed	:-	DCF (T) Thane
33	Shri G. Mallikarjun	:-	DCF (T) Dahanu
34	Shri Pradip Lakra	:-	DCF (T) Yeotmal
35	Shri Giripunje	:-	DCF (T) Pandrakawada
36	Shri N.D. Choudhary	:-	DFO (T) Chandrapur
37	Shri Dhabekar	:-	DFO (Vigilence) Chandrapur
38	Shri G.K. Pawar	:-	DFO (Budget) Nagpur
39	Shri M.Y.Patil	:-	DFO (SFDA) Nagpur
40	Shri V.D.Jadhav	:-	DFO (EGS) Nagpur
41	Shri S.S.Dahiwale	:-	DFO (Vig.) Yavatmal
42	Shri Samadhan Chavan	:-	DFO (Planning) Kolhapur
43	Shri S.B.Valvi	:-	DFO (Planning) Thane
44	Shri D.P. Sadawarti	:-	ACF (Budget) Nagpur
45	Shri A.R. Waghmare	:-	ACF (T) Wardha
46	Shri S.J.Bawankar	:-	Sub-DFO, Allapalli
47	Shri S.D.Shelke	:-	ACF, Akola Forest Division
48	Shri R.K.Chavan	:-	ACF, Alibag
49	Shri Dinesh Singh	:-	ACF, Murbad
50	Shri R.V.Gole	:-	DFO(Evaluation) Nagpur
51	Shri R.M.Nerkar	:-	ACF(FLCS) Gadchiroli
52	Shri S.V.Bedarkar	:-	ACF, WP, Amaravati

ANNEXURE No. II

1. The D.O. letter No. Desk-1/MREGS/CR 23/1228, dated 21/9/2013 of APCCF (BP&D), M.S., Nagpur
2. The letter No. Desk-14/WP/C.No.561/338, dated 2/7/2010 of the then APCCF (P & M), M.S., Nagpur.
3. Government Resolution No. MREGS -2011/C.R.130/EGS-10-A, dated 28/12/2011 of Revenue & Forest Department, Mantralaya, Mumbai.
4. The letter No.Desk-14/WP/TA/C.R.2/1404, dated 8/2/2012 of PCCF (HoFF), M.S., Nagpur.
