



Annual Administrative Report

2020 - 21

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Aranya Bhavan
LA-10A Block, Sector III
Salt Lake City, Kolkata 700 106
West Bengal

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ANNUAL ADMINISTRATIVE REPORT
2020–2021



The cover features a large central green circle with a forest scene. To its left is a smaller blue circle with a forest scene. Above the green circle is a green circle with diagonal stripes. Below the green circle is a green circle with diagonal stripes. To the right of the green circle is a large light green circle with diagonal stripes. The text 'Annual Administrative Report' is centered over the green circle, and '2020 - 21' is in a blue box below it.

Annual Administrative Report

2020 - 21

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বনবিভাগ
পশ্চিমবঙ্গ সরকার
অরণ্য ভবন, নবম তল, ব্লক - এলএ,-১০এ
সেক্টর-৩, সল্টলেক সিটি,
কলকাতা-৭০০ ১০৬
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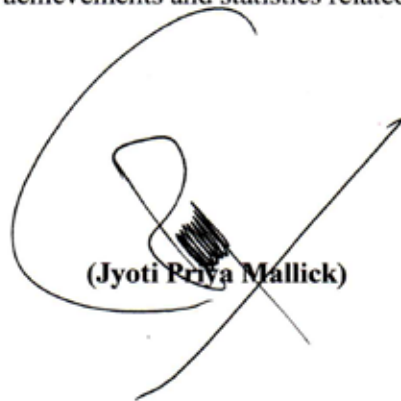
MESSAGE

The biodiversity rich landscape ranging from the coastlines, to the great Himalayas through fertile Gangetic plains adorns the State of West Bengal with its uniqueness. The Government of West Bengal is committed in conserving and protecting its rich natural resources in a sustainable and scientific way, the increase in forest cover in our state is a testimony to these efforts.

Our government is also quick in its response to mitigate the adverse impacts of climate change, the Hon'ble Chief Minister's mission for planting of 5 Crore Mangroves in the Sunderban areas to combat aftermath of the super cyclonic storm AMPHAN in May , 2020, was one among the several steps taken in this direction.

Despite the high population density of the state and emerging demands for more land, the Forest Department is able to maintain a striking balance between development and conservation. With the relentless efforts of the staff along with the Forest fringe populations we are in the journey of achieving more and more green cover in the state.

It gives me immense pleasure to present this Annual Administrative Report 2020-21 which showcases the various achievements and statistics related to forestry in the state



(Jyoti Priya Mallick)

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MESSAGE

Conservation of Forest is a challenging task. Over the years increase in demand for land for various developmental activities makes this task even more difficult.

West Bengal Forest Department with a long history of more than 150 years devised and established certain good practices in maintaining and up gradation of forestry, especially by ensuring the active participation of the people living in fringe areas of the forests in Forest protection and Conservation (JFMCs) which by itself is a pioneering step in preservation of forests in our country.

Our State Government is committed in safeguarding our Forests with the active participation and involvement of forest fringe populations in our endeavour to address climate change mitigation, food and water security, biodiversity conservation and overall welfare of the forest dependent communities. The department of Forests has explored every possible intervention to prevent the Human wildlife conflicts and is continuing its efforts to devise appropriate strategies in mitigating this issue.

For the sustainable management of Forests and wildlife; availability of good data base is of prime importance, as it helps in future planning and better decision making. The Annual Administrative Report 2020-21 has been compiled with the above objective

I express my sincere wishes on the release of this report and hope it shall be of useful to various stakeholders involved in the Forest conservation and management

Place: Aranya Bhavan, Salt Lake

Date: 10.02.2023

Birbaha Hansda
(BIRBAHA HANSDA) 10/02/23

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FOREWORD

It is difficult to envisage life on planet Earth without forests. Forests play a critical role in maintaining our climate, freshwater systems, soils and biodiversity for food security, maintaining watersheds, and the continuance of critical species and ecosystems.

Climate change is a reality, and our State is experiencing the brunt of cyclones and other extreme weather events. Sustainably managing forests is necessary for climate change mitigation, closing the emissions gap and limiting the rise in global temperatures.

The Government of West Bengal is committed to addressing these issues and come up with solutions for mitigating these effects through various forestry interventions, including massive plantations of mangrove species in the Sundarbans.

For better management of forests and wildlife, strategic planning is essential, for which published data is a critical starting point. Dissemination of information awareness of the State's initiatives to garner public support is the best guarantee for protection of the environment.

The Annual Administrative Report for the year 2020-21 brings to light the efforts being made by the Department of Forests to conserve and protect the environment.

I thank the Forest Directorate officials for painstakingly compiling the data for this Administrative Report.

[VIVEK KUMAR]
Additional Chief Secretary to the
Government of West Bengal

Soumitra Dasgupta, IFS



Principal Chief Conservator of Forests
& Head of Forest Force, West Bengal
Directorate of Forests
Government of West Bengal

Ref. No. :

Date :

MESSAGE

The State of West Bengal is blessed with diverse Forest ecosystems and landscapes ranging from the Mangrove ecosystems in the Sunderbans to the might Sub-Alpine Himalayas. The vital role played by forest ecosystems in ensuring the ecological security is widely recognised.

Forests and Wildlife contribute to the delivery of a wide variety of ecosystem services. Conservation and judicious use of forest and its resources is a prerequisite for long term sustainability of the ecosystem services. Because of its dynamic nature, regular monitoring, collection and collation of data is needed to ensure sustainable management of this renewable resources.

State Government has always laid thrust on protecting Forest and its resources through Joint Forest Management involving forest fringe population and other stake holders, which has resulted in increase in forest and tree-cover both in forestland as well as outside.

Keeping in view the substantial role of forest and allied sectors in the sustainable development, the Annual Administrative Report, 2020-21 provides comprehensive data to formulate policies, programs and strategies for better protection, conservation and management of the forest and wildlife in the State.

I hope, the Annual Administrative Report, 2020-21 will certainly help stake holders for the better management of Forest Resources in West Bengal.

I would like to place on record my acknowledgement to all concerned for bringing out this publication.

Date: 11th October, 2022

(Soumitra Dasgupta, IFS)
Principal Chief Conservator of Forests &
Head of Forest Force, West Bengal





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A stylized logo consisting of three overlapping leaf shapes in shades of green, enclosed within a thin, light green outline that forms a larger leaf shape.

SECTION - A





1.1 SUMMARY

The State of West Bengal spread over an area of 88,752 km² (34,267 sq. mi), comprising of 23 districts with over 91 million inhabitants (as of 2011), is India's fourth-most populous state. The State accounts for 2.69% of the country's geographical area but supports approximately 7.54% of the population. The population density of 1029 persons per sq. km. is the highest in the country. Around 72% of the population resides in rural areas of the state. The state has international borders with Bangladesh in the east, and Nepal & Bhutan to the north. It has also interstate borders with Odisha, Jharkhand, Bihar, Sikkim, and Assam. The state capital is Kolkata (*erstwhile Calcutta*) and is the seventh-largest city in India. Geographically, West Bengal includes the Darjeeling Himalayan Hill region, the Ganges Delta, the Arid Region, and the Coastal Sundarbans.

The state has notified forest area of 11,879 sq. km. which is about 13.38% of the geographical area. The demand of the huge population on limited natural resources ie., the land and forests exerts a tremendous negative impact on these resources. To deal with the situation, Forest Department have been taking up constant effort to increase the forest and tree cover through promotion of Social Forestry, Farm Forestry, Agro Forestry, Community Forestry and Afforestation on wasteland, panchayat land, private land, tea gardens, canal banks, roadside and other available areas outside the notified forest areas. There has also been a conscious effort to enhance the forest productivity by improvement of planting stock through Modern Nursery raised Hycopot seedlings and by using Clonal technology in plantation raised inside and outside the notified forest areas.

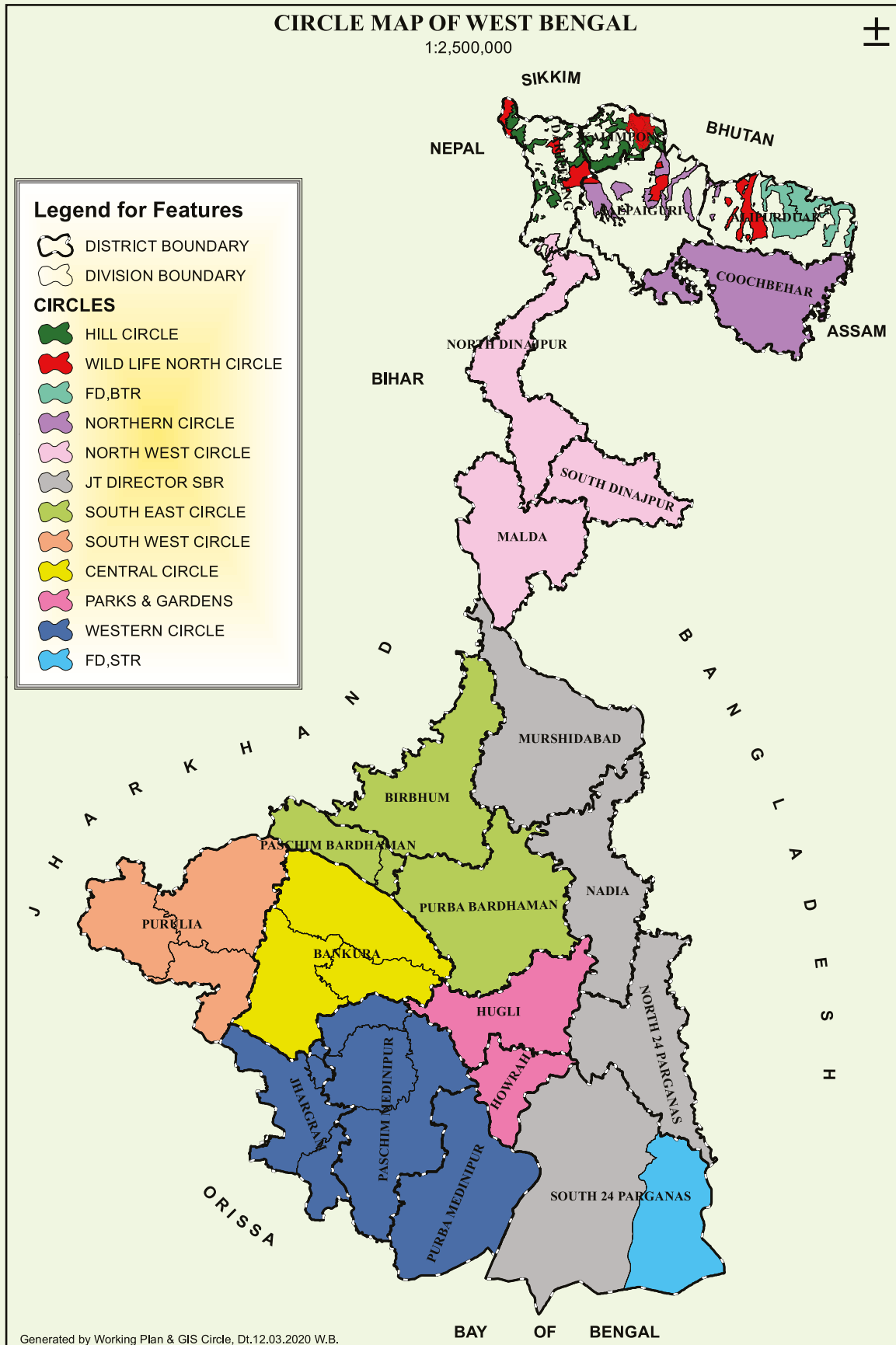
The Ganges is the major River in West Bengal which divides into two branches in the state with one branch entering

Bangladesh as Padma while the other flows through West Bengal as the Bhagirathi River and Hooghly River. Teesta, Torsa, Jaldhaka, and Mahananda Rivers are the major rivers in the northern part of West Bengal which are tributaries to The Ganges (Padma) or The Bramhaputra. The western plateau region has rivers such as the Damodar, Ajay, and Kangsabati which are tributaries to The Bhagirathi / The Hooghly. The Gangetic Delta and the Sundarbans area have numerous rivers and creeks having unique Mangrove Forest.

West Bengal's climate varies from tropical savannah in the southern portions to humid subtropical in the north. The main seasons are summer, the rainy season, a short autumn, winter and spring. While the summer in the delta region is noted for excessive humidity, the western highlands experience a dry summer like northern India, with the highest daytime temperature ranging from 38° C (100° F) to 45° C (113° F). At night, a cool southerly breeze carries moisture from the Bay of Bengal. In early summer, brief squalls and thunderstorms known as *Kalbaisakhi* often occur. West Bengal receives the Bay of Bengal branch of the Indian Ocean monsoon that moves in a southeast to northwest direction. Monsoon brings rains to the whole state from June to September. Heavy rainfall of above 250 centimetres (98 in) is observed in the Darjeeling, Jalpaiguri, and Cooch Behar district. During the arrival of the monsoons, low pressure in the Bay of Bengal region often leads to the formation of storms in the coastal areas. Winter (December–January) is mild over the plains with average minimum temperatures of 15° C (59° F). A cold and dry northern wind blows in the winter, substantially lowering the humidity level. The Darjeeling Himalayan Hill region experiences a harsh winter, with occasional snowfall.



MAP - 1

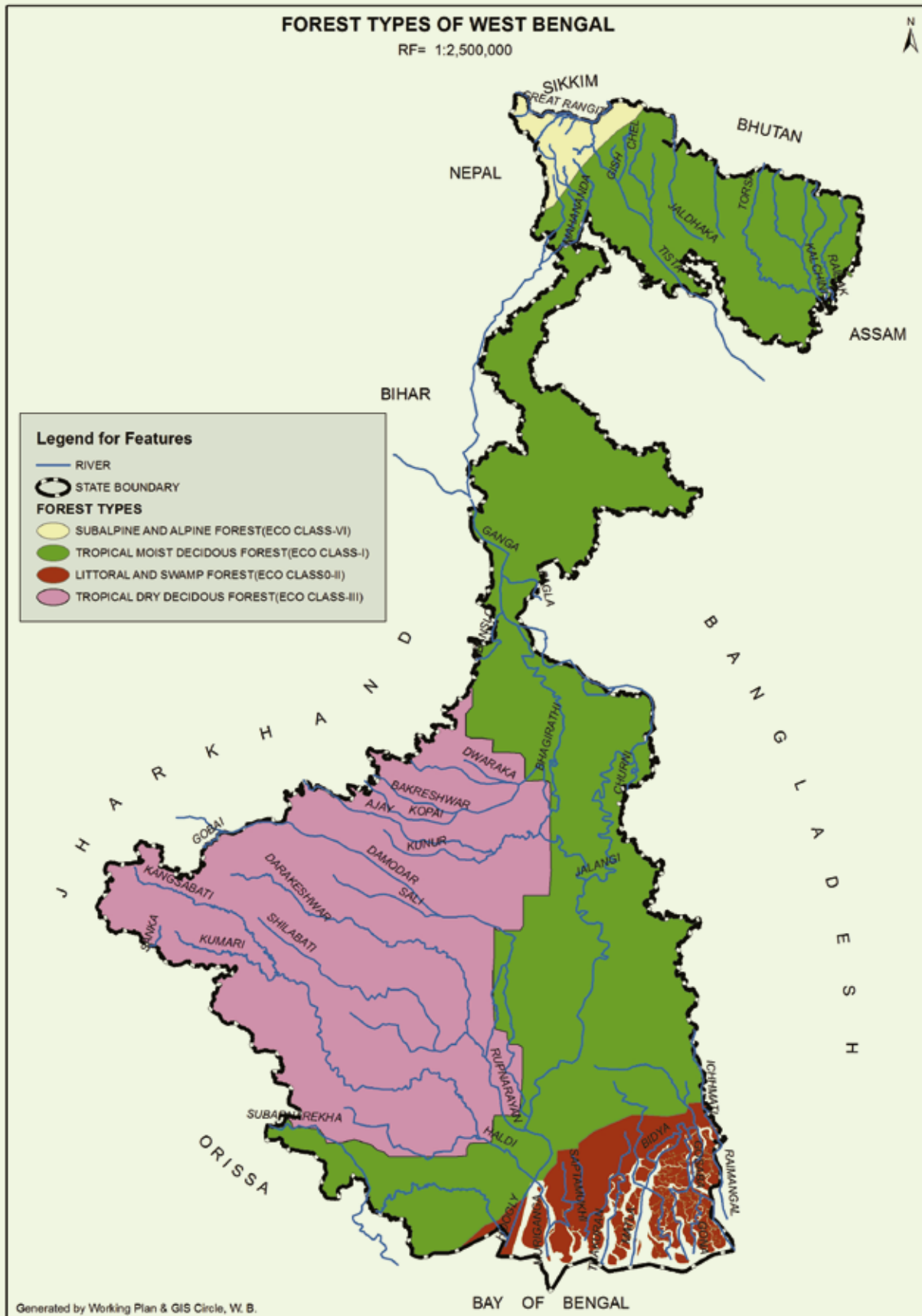


1.2 ORGANISATION OF FOREST DIRECTORATE AS ON 31.03.2021

| PCCF | APCCF | CCF | CF | DCF/DFO |
|------------------------------------|---------------------------------|---------------------------------------|--|--|
| PCCF (HoFF), WB ID | PCCF (Gen.), WB [Niraj Singhal] | CCF (PMC) [S.S. Dey] | | DCF (Personnel) [Jayanta Basu] |
| | | CCF (GC) [S. Sengupta- A/C] | | |
| | | CCF (PGLI) [Lipika Ray] | CF (Admin., Pub. & Mktg.) [Manoj Kr. Saha] | DCF (Legal) [Praseeda Variar V.V.] |
| | | CCF (Finance) [N. Mallick] | | DCF (Finance) [Amrita Dutta] |
| | | CCF (SDP) [Dr. S.C. Das] | | DCF (SDP) [Sarajit M'jee - AC] 9830305415 [Lipika Ray] (Addl. Charge) 9433010981 |
| | | CCF (MIS & e-Gov) [Sumita Ghatak] | | DCF (MIS) [Vikash V.] |
| | | CCF (LA & FCA) [Rajeev Sharma] | | |
| | | CCF (Hqr.) [Subhankar Sengupta] | | DCF (Admin.) [Rana Datta] DFO (Utilization.) [Utpal Nag] |
| | | | CF (WP & GIS) [Bhaskar JV] | DFO (WP-North) [Jiju Jaesper J.] DFO (WP - South-I) [Ayan Ghosh] DFO (WP - South-II) [Smt. Swagata Das] |
| | | | CF (South) [Ajay Kr. Dubey] | DCF (Publicity) [Arunangshu Panda] |
| | | CCF (Central Circle) [S. Kulandaivel] | | DFO (Bankura-North) [Kalyan Rai] DFO (Bankura-South) [E. Vijaya Kumar] DFO (Panchet) [Satyajit Roy] |
| | | CCF (Western Circle) [Dr. A.P. Singh] | | DFO (Medinipur) [S.K. Berwal] DFO (Kharagpur) [Shivanand Ram] DFO (Jhargram) [Sheik Fareed J.] DFO (Rupnarayan) [Manish Kr. Yadav] DFO (Purba Medinipur) [Anupam Khan] |
| | | CCF (S-E Circle) [Kalyan Das] | | DFO (Birbhum) [DMP Pradhan] DFO (Burdwan) [Nisha Goswami] DFO (Durgapur) [N.R. Panda] |
| | | CCF (S-W Circle) [M.R. Bhatta] | | DFO (Purulia) [Debashish Sharma] DFO (K'bati - North) [Uma Rani N.] DFO (K'bati - South) [Arnab Sengupta] DFO (Purulia Extn. fry.) [Netai Saha] |
| | | CCF (Cons. & Extn.) [Dr. V.K. Sood] | CF (P & G) [R.N. Saha] | DCF (URF) [Ram Prasad Badana] DFO (P & G - North) [Anjan Guha] DFO (Howrah S.F.) [Raju Sarkar] |
| | | | CF (N-W Circle) [T.T. Bhutia] | DFO (Siliguri S.F.) [Anjela Penjum Bhutia] DFO (Jalpaiguri S.F.) [Bijan Talukder] DFO (Raigun) [Siddhartha B.- A/C] DFO (Malda) [Siddhartha B.] |
| | APCCF (N.B.) [Ujjwal Ghosh] | CCF (Hill Circle) [G.P. Chhetri] | | DFO (Darjeeling) [Pankaj Suryavanshi] DFO (Kurseong) [Harikrishnan P.J.] DFO (Kalimpong) [Chitrak Bhattacharya] |
| | | CCF (Northern Circle) [Samir Gajamer] | | DFO (Jalpaiguri) [Mridul Kumar] DFO (Coochbehar) [Sanjit Kr. Saha] DFO (Baikunthapur) [Hari Krishnan] DFO (NTFP) [Dilip Kumar Jana] |
| | | | | DFO (Darjeeling WL) [S.S.S.S. Sherpa] DFO (Gorumara WL) [Smt. Aanshu Yadav] DFO (Jaldapara) [Deepak M.] |
| | PCCF (WL), WB [Debal Ray] | CCF (WL-North) [Rajendra Jhakher] | | DFD (BTR-East) [Harish] DFD (BTR-West) [Parveen Kaswan] |
| | | CCF & FD (BTR) [B.R. Shewa] | | DCF (WL-Hqr.) [Om Prakash] |
| | | | CF (WL-Hqr.) [S.S.K. Anand] | |
| | | | CF, WL (P&R) [S.S.K. Anand- A/C] | |
| | APCCF & Dir. (SBR) [Piar Chand] | CCF & FD (STR) [Tapas Das] | | DFD (STR) [S. Jones Justin] |
| | PCCF (RM&D), WB [Y.K. Yadav] | APCCF (R&M) [Pratibha Raj] | Jt. Dir. (SBR) [Ajoy Kr. Das] | DFO (24-Pgs.-N) [Niranjita Mitra] DFO (24-Pgs.-S) [Milan Kanti Mondal] DFO (Nadia-M'dabad) [Dr. Pradip Bauri] |
| | | CCF (R&D) [Debangshu Mallick] | CF (Research) [Bidyut Sarkar] | DFO (Silvi.-Hill) [Jiju Jaesper J. - A/C] DFO (Silvi.-N) [Kaushik Sarkar- A/C] DFO (Silvi.-S) [M.L. Sarkar] |
| | | | CF (Dev.) [Arun Kr. Mukhopadhyay] | Dir. (WB For. School) [Umar Imam] Dir. (SFTI-Hizli) [Anasua Roy] |
| | | CCF (M&E) [Raju Das] | CF (Monitoring) [Bidyut Sarkar- A/C] | DFO (Monitoring-N) [Kaushik Sarkar] DFO (Monitoring-S) [Utpal Nag- A/C] |
| | | CCF (Soil Consrvn.) [M.C. Biswas] | CF (Soil Cons.-N) [N.T. Bhutia] | DFO (Kurseong SC) [Vishwanath Pratap N] DFO (Jalpaiguri SC) [Bimal Debnath] |
| PCCF & CEO, CAMPA [Jose T. Mathew] | | | Jt. CEO, CAMPA [Apurba Sen] | DCF & OSD, CAMPA [Angshuman Mukhopadhyaya] Dy. CEO, CAMPA [Dibyajyoti Bera] |



MAP - 2



FOREST LAND, FOREST COVER AND VEGETATION

CHAPTER - 2

2.1 FOREST LAND

The state of West Bengal has a recorded Forest area of 11,879 sq. Km. These Forest areas are classified into three categories with well-defined extent — (1) Reserved Forests having an area of 7,054 ha (2) Protected Forests with an extent of 3,772 sq km and (3) Unclassed State Forests with an area of 1053 sq. Km. As per the latest report Published by Forest Survey of India, the Forest Cover of the state is 21.39% of the geographical area, which includes both the notified forest areas and the afforestation created in areas outside forest.

2.1.1 Land Use

The overall land use pattern in the state of West Bengal depends mostly on the physiographic condition of the area. Total geographical area of the state is divided into two major classes i.e. (a) arable land, that includes net sown area and fallow land (b) non-arable land, which includes forest, area not available for cultivation and other uncultivable land excluding current fallow. The percentage of arable land is about 63.48% and about 34.36% land is under non-arable category (Economic Review, GoWB,) which includes notified forest area to the tune of 13.38% of total geographical area. Agricultural activities are mostly restricted to the Gangetic plains having fertile cultivable land. In North Bengal vast areas are under Tea Plantations.

2.1.2 Climate

In general, climate of West Bengal varies from sub-humid to per-humid with uniformity of temperature. The tropic of cancer runs across the middle of Nadia, Burdwan, northern parts of Bankura and Purulia districts. In spite of its position in equatorial zone, the Himalayan Mountains in the north, Bay of Bengal in the south and extensive network of rivers, canals, tanks etc. do not allow extreme climatic conditions

to prevail in the state. Heavy rainfall occurs in the northern part of West Bengal and gradually decreases towards south forming an area of moderate rainfall zone around central part of West Bengal. In the Northern part of the state that includes the mountain region (Himalayas), temperature ranges from freezing point to 10°C in winter. It hovers around 12° C to 18° C in the plains. The summer season begins from the month of March and temperature starts rising upto June. May is the hottest month.

2.1.3 Soil

In the Himalayan region soils are predominantly shallow to moderately shallow but also deep at places, well drained, coarse-loamy to gravelly loamy in texture. In the piedmont of Himalayas soils are deep to very deep, imperfectly drained and coarse-loamy to fine loamy in texture and are placed in Aquic Ustifluvents and Fluventic Eutrochrepts. Soils of the alluvial plain which includes Indogangetic alluvium (recent, active and old) are also very deep, imperfect to poorly drained, fine-loamy & also coarse-loamy in texture and with moderate flooding problem in some cases. These soils are classified as Aeris Haplaquepts, Typic Fluvaquepts, Typic Haplaquepts, and Typic Ustochrepts. Coastal plain is represented by soils of both sandy as well as fine in texture, very deep with salinity problems in some places. Soils are placed in Aquic Ustipsamments and Vertic Haplaquepts.

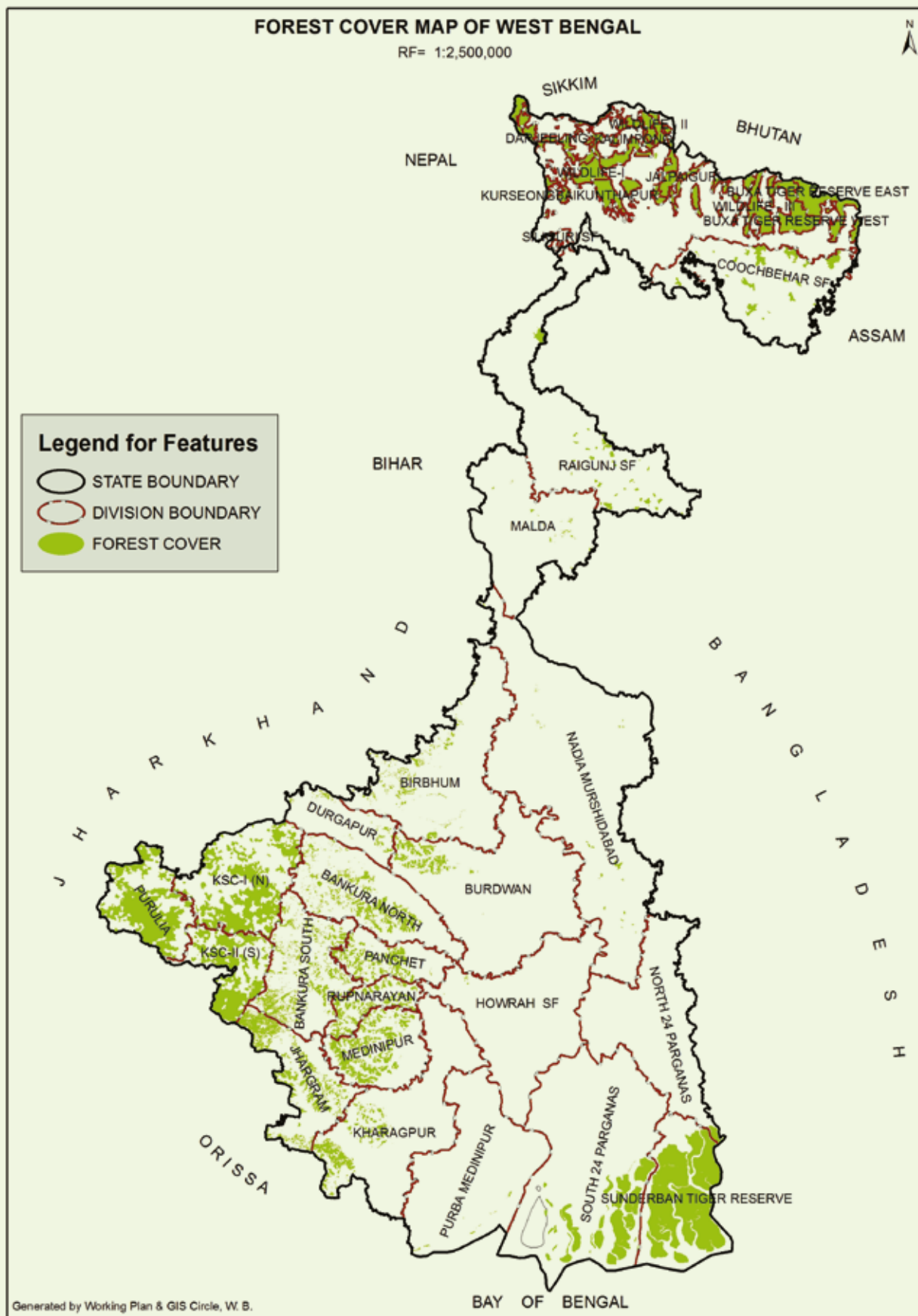
2.2 CLASSIFICATION OF RECORDED FOREST LAND (LEGAL STATUS)

Reserved Forest (RF): An area notified under the provisions of India Forest Act (IFA), 1927 having full degree of protection. In Reserved Forests all activities are prohibited unless specifically permitted (Sec. 20 of IFA, 1927).

Protected Forest (PF): An area notified under the provisions of the Indian Forest Act, 1927 or other State Forest Acts,

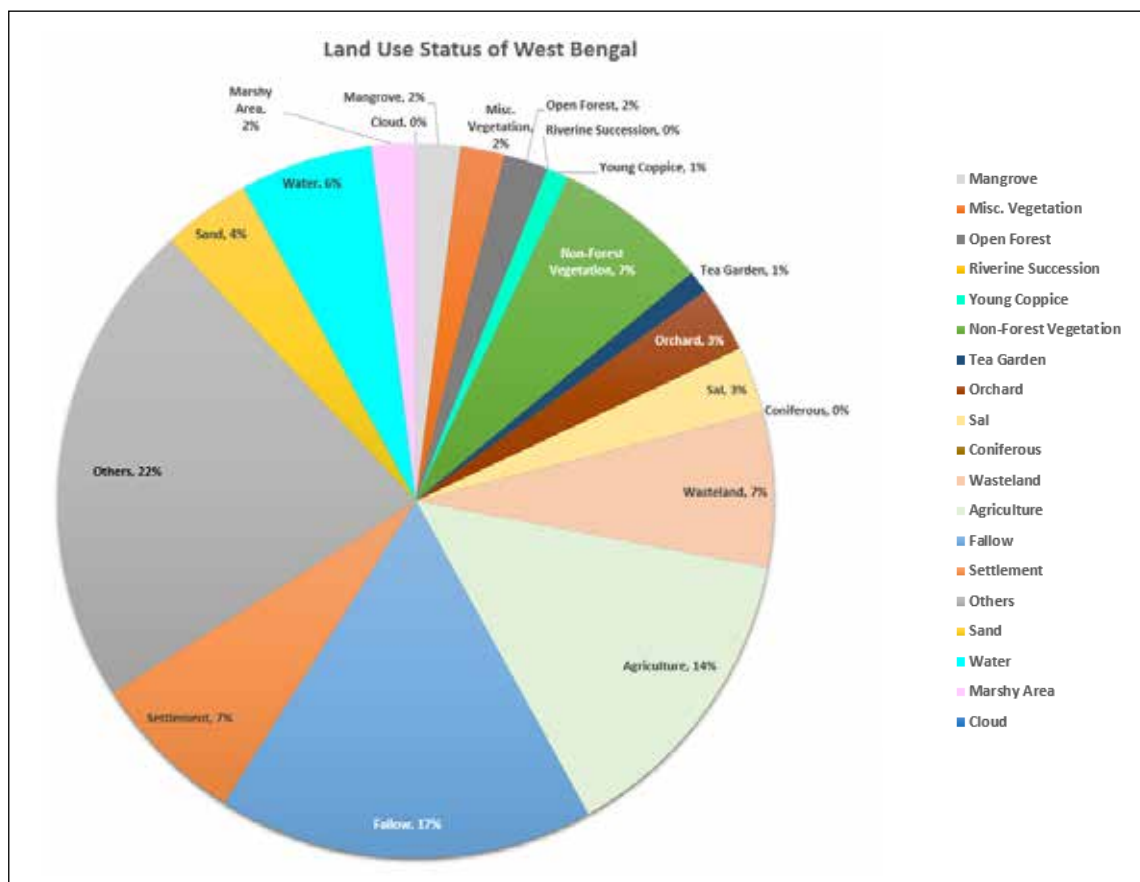


MAP - 3



having limited degree of protection. In Protected Forest all activities are permitted unless prohibited (Sec. 29 of IFA, 1927).

Unclassified State Forest (USF): An area recorded as forest but not included in reserved or protected forest category.

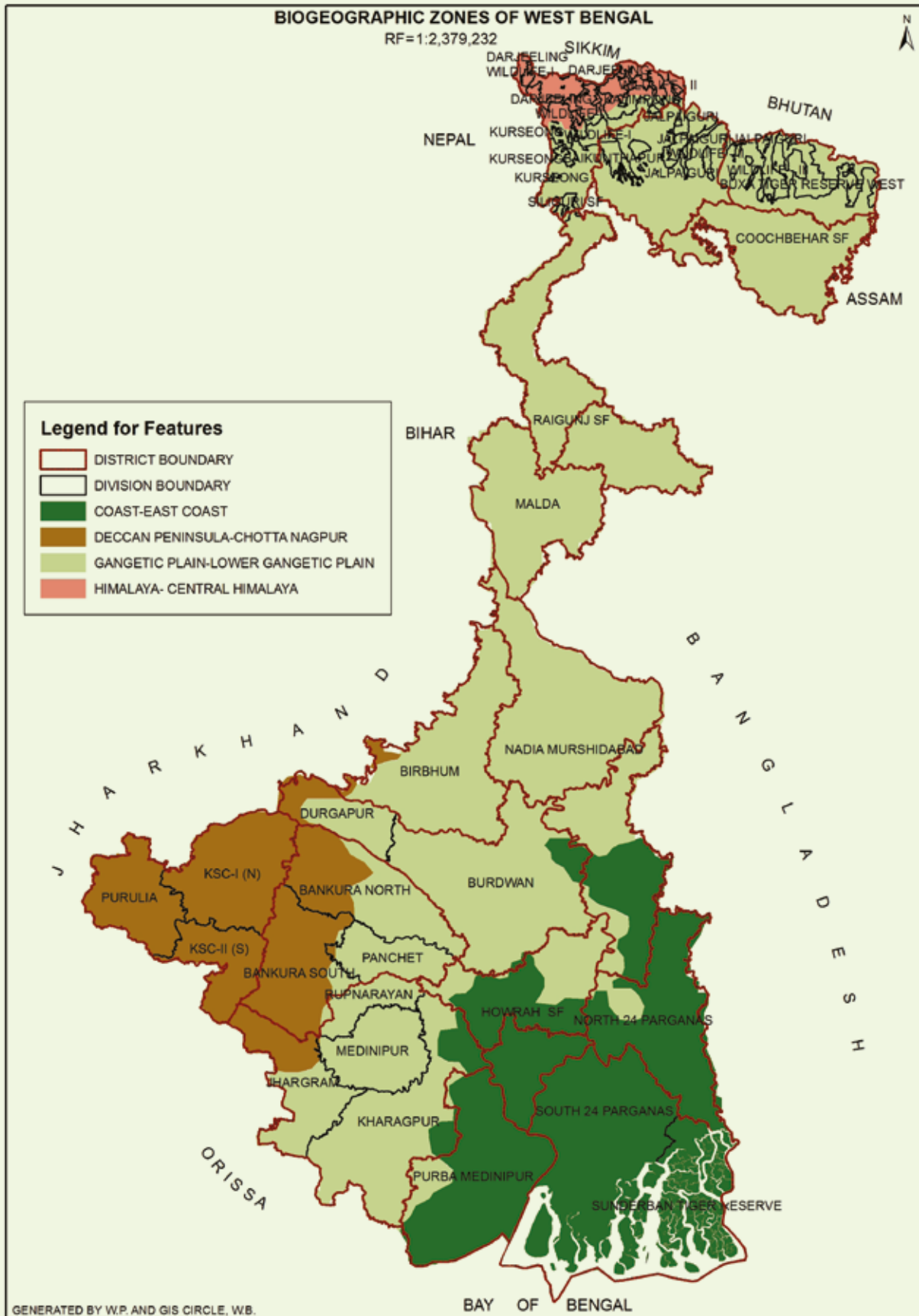


2.3 DISTRIBUTION OF GEOGRAPHICAL AND RECORDED FOREST LAND IN WEST BENGAL

| District | Geographical Area (Sq.km.) | Recorded Forest Area (Sq.km.) | %Age of Recorded Forest Area |
|---------------------|----------------------------|-------------------------------|------------------------------|
| Darjeeling * | 3,149 | 1204 | 38.23% |
| Jalpaiguri | 2,844 | 723 | 25.42% |
| Alipurduar | 3,383 | 1067 | 31.54% |
| Coochbehar | 3,387 | 57 | 1.68% |
| Bankura | 6,882 | 1482 | 21.53% |
| Paschim Medinipur * | 9,368 | 1709 | 12.14% |
| Purba Medinipur | 4,713 | | |
| Burdwan * | 7,024 | 277 | 3.94% |
| Purulia | 6,259 | 876 | 14% |
| Birbhum | 4,545 | 159 | 3.50% |
| Hooghly | 3,149 | 3 | 0.10% |



MAP - 4



| District | Geographical Area (Sq.km.) | Recorded Forest Area (Sq.km.) | %Age of Recorded Forest Area |
|---------------------|----------------------------|-------------------------------|------------------------------|
| Nadia | 3,927 | 12 | 0.30% |
| Murshidabad | 5,324 | 8 | 0.15% |
| Malda | 3,733 | 20 | 0.54% |
| Uttar Dinajpur | 3,140 | 10 | 0.32% |
| Dakshin Dinajpur | 2,219 | 8 | 0.36% |
| Kolkata | 104 | 0 | 0.00% |
| Howrah | 1,467 | 0 | 0.00% |
| 24-Parganas (South) | 10,159 | 4,221 | 41.54% |
| 24-Parganas (North) | 3,977 | 43 | 1.08% |
| Total | 88,752 | 11,879 | 13.38% |

* Undivided District data [Census, 2011].

2.4 COMPARATIVE STATEMENT OF FOREST COVER AS ENUMERATED THROUGH GIS & REMOTE SENSING

| Survey Period | % Recorded Forest Land | % Forest & Tree Cover |
|---------------|------------------------|-----------------------|
| 1988 | 13.38 | 14.32 |
| 1991 | 13.38 | 14.97 |
| 1994 | 13.38 | 15.06 |
| 1997 | 13.38 | 15.16 |
| 2000 | 13.38 | 15.30 |
| 2004 | 13.38 | 15.52 |
| 2006 | 13.38 | 15.68 |
| 2007 | 13.38 | 16.67 |
| 2008 | 13.38 | 16.67 |
| 2009 | 13.38 | 16.67 |
| 2011 | 13.38 | 17.27 |
| 2013 | 13.38 | 21.35 |
| 2015 | 13.38 | 21.31 |
| 2016 | 13.38 | 21.31 |
| 2017 | 13.38 | 21.39 |
| 2018 | 13.38 | 21.39 |
| 2019 | 13.38 | 21.30 |
| 2020 | 13.38 | 21.30 |

(Source: Forest Survey of India, 2019)



2.5 LEGAL STATUS OF FORESTS IN WEST BENGAL

(Area in Sq. Km.)

| Year | Reserved Forests | Protected Forests | Unclassed State Forests | Private Protected Forests | Tea Garden Forests | Other Private Forests | Total Forests Area |
|------|------------------|-------------------|-------------------------|---------------------------|--------------------|-----------------------|--------------------|
| 1951 | 6,845 | 17 | 128 | – | 258 | 5,007 | 12,255 |
| 1961 | 6,979 | 3,451 | 483 | 598 | 257 | 204 | 11,972 |
| 1964 | 7,000 | 3,512 | 520 | 593 | 244 | 118 | 11,987 |
| 1971 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 1981 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 1991 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2001 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2002 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2003 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2004 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2006 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2007 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2008 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2009 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2010 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2011 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2012 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2013 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2014 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |
| 2015 | 7,054 | 3,772 | 1,053 | – | – | – | 11,879 |

(Source: West Bengal Forests, Centenary Commemoration Volume, Forest Directorate, 1964)

2.6 DISTRICT-WISE AREA UNDER FORESTS (LEGAL STATUS) IN WEST BENGAL

(Area in Sq. Km.)

| Sl. No. | District | Reserved Forests | Protected Forests | Unclassed State Forests & Others | Total Area |
|---------|---------------------|------------------|-------------------|----------------------------------|------------|
| 1 | Darjeeling * | 1,115 | – | 89 | 1204 |
| 2 | Jalpaiguri | 1,483 | 217 | 90 | 723 |
| 3 | Alipurduar | – | – | – | 1067 |
| 4 | Coochbehar | 0 | 42 | 15 | 57 |
| 5 | Bankura | 80 | 1,311 | 91 | 1482 |
| 6 | Paschim Medinipur * | 8 | 1,166 | 535 | 1709 |
| 7 | Purba Medinipur | | | | |



| Sl. No. | District | Reserved Forests | Protected Forests | Unclassified State Forests & Others | Total Area |
|--------------|--------------------|------------------|-------------------|-------------------------------------|---------------|
| 8 | Burdwan * | 3 | 192 | 82 | 277 |
| 9 | Purulia | 112 | 729 | 35 | 876 |
| 10 | Birbhum | 8 | 54 | 97 | 159 |
| 11 | Hooghly | 3 | – | – | 3 |
| 12 | Nadia | 5 | 3 | 5 | 13 |
| 13 | Murshidabad | 1 | 7 | – | 8 |
| 14 | Malda | 8 | 5 | 7 | 20 |
| 15 | Uttar Dinajpur | 8 | 4 | 6 | 10 |
| 16 | Dakshin Dinajpur | | | | 8 |
| 17 | Kolkata | 0 | 0 | 0 | 0 |
| 18 | Howrah | 0 | 0 | 0 | 0 |
| 19 | 24-Parganas(South) | 4,177 | 42 | 1 | 4,220 |
| 20 | 24-Parganas(North) | 43 | 0 | 0 | 43 |
| TOTAL | | 7,054 | 3,772 | 1,053 | 11,879 |

* Undivided District data [Census, 2011].

2.7 FOREST COVER AND VEGETATION

Group 1B: NORTHERN TROPICAL WET EVERGEREEN FORESTS

Location: Plains of North Bengal upto 150m. Altitude.

Sites: Bagdogra range of Kurseong division, Khutimari areas of Jalpaiguri division, Damanpur, Cheko, Gadadhar, Rajabhatkhawa, Rydak of Buxa Tiger Reserve.

Area: 167 sq. Km.

Species: Sal, Nageshwar, Jam, Kainjal, Lator, Malagiri, Lali & Canes.

Group 2B: NORTHERN SUB-TROPICAL SEMI-EVERGEREEN FORESTS

Location: North Bengal

Sites: Sumbong, Peshok, Buxaduar

Area: 25 sq. Km.

Species: Champ, Panisaj, Gokul, Angare.

Group 3C: NORTH INDIA MOIST DECIDUOUS FORESTS

Location: North Bengal

Sites: Almost entire duars and terai area

Area: 1757 sq. Km.

Species: The most important forests of the State are in this sub-montane belt consisting of Sal with Champ, Chilauni, Chikrassi, Gamar, Lali, Lasune, Panisaj, Paccasaj interspersed with riverian forests of Khair, Sissco, Simul, Toon etc. representing succession from riverian to climax sal. The changes of vegetation that changes with altitude in the Himalayas are similar to those that take place as one travels from tropics to the poles. The proportion of Sal gradually dwindles, stopping short of Damuda rocks (2500 ft.) which are remains of Gondwana sand stone and are unsuitable for Sal.



Group 4B: LITTORAL & SWAMP FORESTS – THE MANGROVES

Sites: The tidal mangrove forests of Ganga-Brahmaputra delta (Sundarbans).

Area: 4263 sq. Km.

Species: Goran (*Ceriops roxburghiana*) Gnewa (*Excoecaria agallocha*) Sundari (*Heritiera minor*) Baen (*Avicennia officinalis*) Dhundal (*Carpa obovata*)

Group 4D: LITTORAL & SWAMP FORESTS – TROPICAL SEASONAL SWAMPS OF Barringtonia

Location: Malda & Dinajpur (N & S)

Area: 20 sq. Km.

Species: Hijal (*Barringtonia acuteangula*)

Group 5B: NORTHERN TROPICAL DRY DECIDUOUS FORESTS

Location: Bankura, Purulia, Midnapur, Birbhum, Burdwan

Area: 4527 sq. Km.

Species: Sal (*Shorea robusta*), Peasal (*Pterocarpus marsupium*), Kend (*Diospyros melanoxylon*), Mahul (*Madhuka latifolia*), Kusum (*Schleichera trijuga*), Karam (*Adina cordifolia*), Asan (*Terminalia tomentosa*), Bahera (*T. belerica*), Rahara (*Soyamuga febrifuga*), Dhaw (*Anogeissus latifolia*).

Group 8B: NORTHERN SUB-TROPICAL BROAD-LEAVED WET HILL FORESTS

Location: North Bengal hills 300m-1650m altitude.

Sites: Sim, Upper Sumbong, Upper Reyong, forests block of Majua, Lower Babukhola, Phuguri, Bunklong, Khairbani, Mana, Sittong, Numbong, Setikhola, Shivakhola, Mirik, Paglajhora, Kuh, and Latpanchar.

Area: 800 sq. Km.

Species: Chilauni, Panisaj, Gokul, Sour, Utis, Mauwa, Tarsing.

The species commonly found are Mowa, Chilauni, Katus, Panisaj, Lampate, Phaleado, Saur, Tarsing, Angare, Melo, Kapasi, Utis, Toon and Malagiri along with Kutmero, Jhingni, Lek Chilauni, Malata, Thali, Kawala etc. Climbers and epiphytes are common here. Choyabans and tree Ferns occur locally.

Group 11B: NORTHERN MONTANE WET TEMPERATURE FORESTS

Location: North Bengal hills 1650m-3000M. altitude.

Sites: Selimbong, Kankibong, Little Rangit, Lopchu, Mahaldiram, Chattakpur, Dhobijhora, Upper Babukhola, Phuguri, Paglajhora, and Lower Babukhola forests blocks.

Area: 150 sq. Km.

Species: Kawla, Lkhar, Pipli, Oaks (buk & phalat), Rani Champ, *Abies densa*, *Tsuga brunoniana*, *Acer* spp., *Rhododendron* spp.

The principal species found here are Pipli (*Bucklandia populnea*), Utis, Saur, Katus, Kapasi, Arkula, Mowa, Khankpa, Sinkoli, Buk, Phalant, Champ, Kawla, Malta, Magnolia, Latasaea and *Machilus* spp. along with Jhingni, Chiwri, Araliaceous, spp. *Ilex* spp., Thali and Kharane, The ground flora includes Kimbu, Kagate, Asare, Thotne, Chuletro, Maling, Lycopodium, Basak and Chirata.

Group 12C: EAST HIMALAYAN MOIST TEMPERATURE FORESTS

Location: North Bengal hills 1500m-1800m altitude.

Sites: Rimbik

Area: 150 sq. Km.



Species: The species commonly found are Mowa, Chilauni, Katus, Panisaj, Lampate, Phaleado, Saur, Tarsing, Angare, Melo, Kapasi, Utis, Toon and Malagiri along with Kutmero, Jhingni, Lek Chilauni, Malata, Thali, Kawala etc. Climbers and epiphytes are common here. Choyabans and tree Ferns occur locally. This type of forests are met within the forest blocks of Majua, Lower Babukhola, Phuguri, Bunklog, Khairbani, Mana, Sittong Numbong, Setikhola. Shivakhola, Mirik, Pagaljhora, Kuhi and Latpanchar.

Group 14C: SUB-ALPINE FORESTS

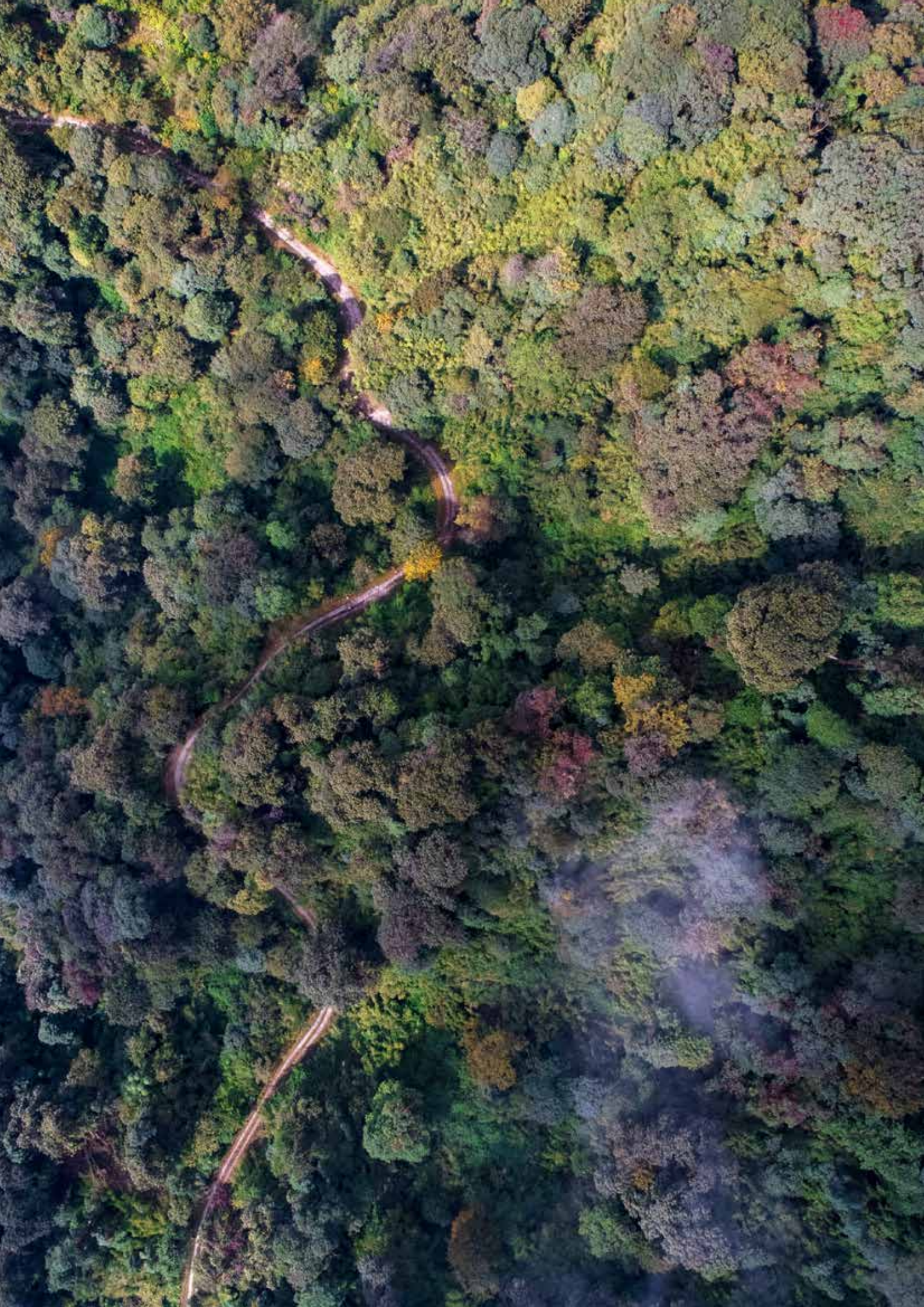
Location: North Bengal hills 3000m-3700m

Sites: Sandakapu, Sabarkum, Phalut

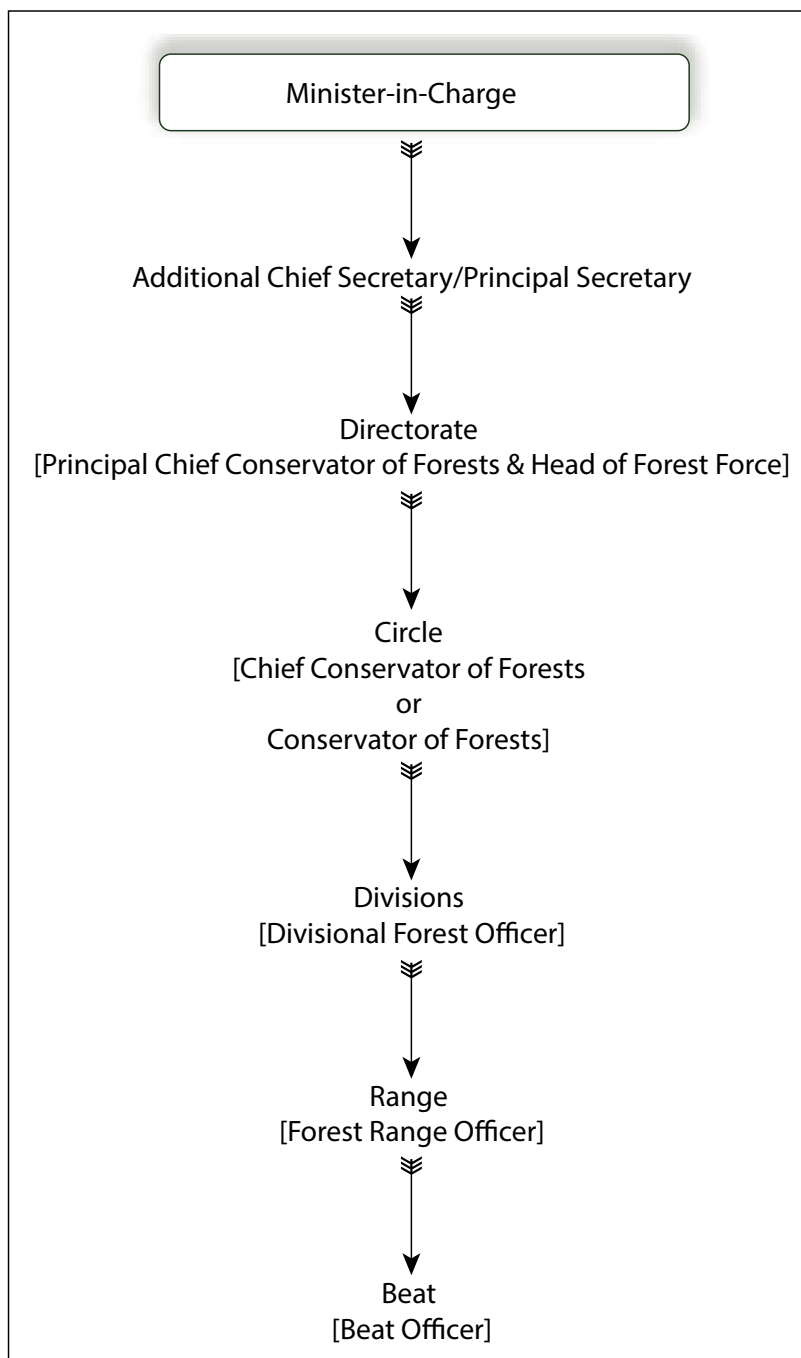
Area: 20 sq. Km.

Species: Important spp. are Putli, Lekh Kapasi, Lekh Pipli, Kapasi, Arupate, Sindure Katus (*Castanopsis spp.*), Yew (*Taxus baccata*), *Tsuga brunoniana*, *Abies densa*, Junipers, Birch (*Betula utilis*), Rhododendrons, Salix, Berberies, Maling bamboo.





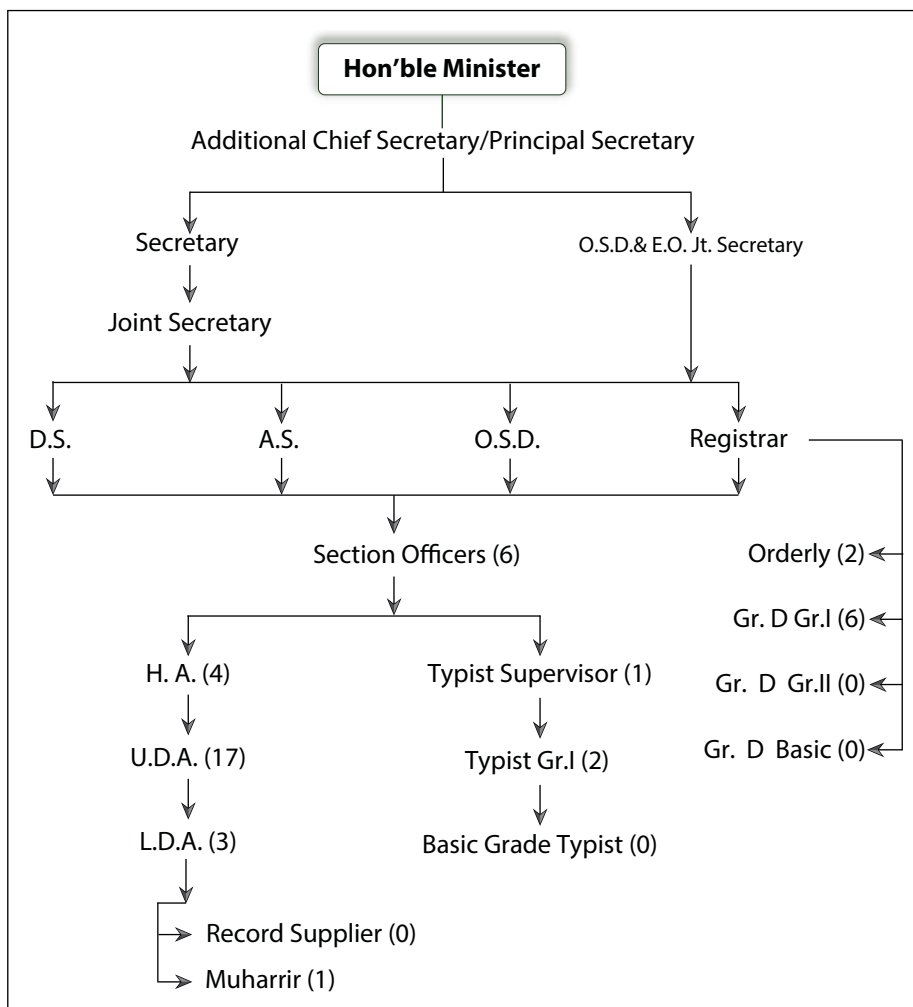
3.1 DEPARTMENT OF FORESTS, WEST BENGAL ADMINISTRATIVE SET UP OF THE DEPARTMENT OF FORESTS



3.1.1 Organizational Structure of Forest Department, Govt. of W.B.

The Department of Forests is Department with a structure that reflects the diverse range of tasks it is expected to

undertake. The administration of this Department is vested with the Additional Chief Secretary / Principal Secretary. He / She is assisted by officers and employees working at the secretariat, Directorate, Districts, Sub-Divisions and Block levels.



3.1.2 Function of the Secretariat

Subject to the overall control of the Hon'ble MIC, Forests, the Secretariat functions under the administrative direction and guidance of the Principal Secretary. The Department monitors and evaluates various projects/ schemes implemented through the Directorate.

The Functions of the Secretariat are dealt with by different cells headed by Adll. Secretary and Joint Secretary.

1. Departmental Establishment Cell: Service matters of the Secretariat employees, enforcement of attendance, vigilance matter of Secretariat employees etc.

2. Gazetted Establishment Cell: All kinds of Service matters of IFS and WBFS officers.

3. Non-Gazetted Establishment Cell: All kinds of Services matters of non-gazetted employees of Forest Directorate.

4. Vigilance Cell: Vigilance matters of IFS, WBFS officers.

5. Law Cell: Law matters relating to Directorate & Department

6. Wildlife Cell: Wildlife related matters and matters relating to framing of Acts/Rules/Notifications pertaining to different acts, matters related to forest produce, Establishment of State Zoo Authority, matters relating to WBFDC Ltd., WBPDC Ltd and WBWDC Ltd.



(Excluding Establishment related to WBFDC and WBPCD Ltd).

- 7. Budget Cell:** Budgetary provisions of Department and Directorate through Fund flow. Release information system Portal of Finance Department, Budget Allotment to the Department and Directorate and Monitoring of fund flow through e-bantan Portal of Finance Department. Monitoring of RIDF scheme through Rural infrastructure Development Fund Portal of Finance Department, Create new Head of Services for implementation of new schemes, Fund allotment to the Schemes like Jalatirtha, Sabujshree etc., Create New DDO and DDO code, Payment of compensation to the victims family due to wild animal-human conflict like Human injury, crop damage, hut damage etc., payment of decretal money. Monitoring over WFTS portal of Finance Department, Credit Confirmation of Central allotment of fund through Online Credit Confirmation System, Re-appropriation and augmentation of fund through e-bantan and sending of file to the Finance Department.
- 8. Accounts Cell:** Registrar (presently the Assistant Secretary) acts as the drawing and disbursing officer of the Department for drawl of establishment bills after introduction of self DDO-system from December, 2011, Preparation of Establishment Bill, submission to Pay & Accounts office for drawal of cheques, encashment of cheques from the Reserve Bank of India, payment

to the employees of the Department, issue of salary Accounts slip etc.

- 9. Billing Cell:** Matters relating to stationary, office budget allotment, Identity Card, Vehicle for Officers, reimbursement of telephone Bill, Newspaper Bill and Medical Bill of Officers, Tour of MIC and Officers.
- 10. Leave Cell:** Leave matters of Secretariat employees.
- 11. Medical Cell:** Matters relating to WBHS' 08, WBHS' 14 and other medical cases for Secretariat and Directorate employees.
- 12. RTI, Public Grievance & Protocol Duty Cell:** Matters Relating to RTI, Public Grievances and Protocol Duty for official guests and others matters.
- 13. Audit Cell:** Settlement of outstanding audit para and matters relating to Assembly/Lok Sabha/Rajya Sabha questions matters related to Assembly Committee, Audit, Plan and non-plan fund of Alipore Zoo & PNHZ Park.
- 14. CAMPA Cell:** Framing of Acts/Rules/Notifications pertaining to different acts, diversion of land under Forest Conservation Acts & Wetland, CAMPA, Saw-mills.
- 15. Miscellaneous Cell:** All kinds of miscellaneous matters concerned with this Department.
- 16. Issue & Compare Cell:** Provide issue numbers, despatch the government letters and documents and compare the draft letters.

3.2 FOREST DIRECTORATE ADMINISTRATION 2020–2021

3.2.1 IFS Cadre strength of West Bengal as on 01.01.2021

| Sl. No. | Authorised Structure of the Cadre vide G.O No. 16016/2(i)/2011-AIS-(II)(A) dt.13.03.2012 | No of Post | Present Strength of Cadre as on 01.01.2021 | No of Post |
|----------|--|------------|--|------------|
| 1 | Senior Duty Post under the State Govt | 78 | Senior Duty Post | 78* |
| 2 | Central Deputation Reserve @ 20% of (1) above | 15 | Central Deputation | 7 |
| 3 | State Deputation Reserve @ 25% of (1) above | 19 | State Deputation | 20 |
| 4 | Training Reserve @ 3.5% of (1) above | 2 | Training Reserve | 8 |
| 5 | Post to be filled by promotion in accordance with rule 8 of Indian Forest Service Recruitment Rules 1966 not exceeding 33.33% of items (1),(2),(3) and (4) above | 38 | Posts Filled by promotion from WBFS | 33 |
| 6 | Leave Reserve & Junior Posts Reserve @ 16.5% if item (1) above | 12 | Leave Reserve & Junior Posts | 1 |
| 7 | Post to be filled by Direct Recruitment (1+2+3+4+6-5) | 88 | Posts filled by Direct Recruitment | 72 |
| 8 | Total Authorised Strength | 126 | Total Present Strength | 105 |

*Includes 12 IFS officers of Junior Time Scale holding Senior Duty Posts.



3.2.2 WBFS Cadre of West Bengal

Authorised & existing Cadre strength of the West Bengal Forest Service
(As per Govt Order No. 1499-For dated 15.05.2000 & 3887-For. dated 10.11.2006)
As on 01.01.2021

| Sl. No. | Description | Sanctioned strength | Actually Posted |
|---------|--|---------------------|-----------------|
| 1 | Direct Recruit Officers | 63 | 51 |
| 2 | Promoted Officers | 63 | 55 |
| 3 | Officers in charge of Division/Sr. Duty Post(DFO/DCF) | 23 | 24 |
| 4 | Officers posted as ADFO or Junior Duty Post | 87 | 68 |
| 5 | Officers on Deputation @ 10% of (3+4) | 11 | 16 |
| 6 | Officers undergoing training and leave reserve @ 5% of (3+4) | 5 | 0 |
| | Total Authorised Strength | 126 | 106 |

Names in the list have been arranged as per provisional seniority.

3.2.3 Statement showing the sanctioned strengths of officers and staff of the Forest Directorate along with the existing strengths and vacancy positions as on 31.3.2021 given below:

| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|--------------------------|-------------------|-------------------|-----------|
| 1. | IFS | 126 | 104 | 22 |
| 2. | WBFS | 126 | 103 | 23 |
| 3. | A.O. | 1 | 1 | 0 |
| 4. | FR | 586 | 429 | 157 |
| 5. | DR/Fr. | 1284 | 643 | 641 |
| 6. | FG | 2458 | 1048 | 1410 |
| 7. | HFG | 231 | 59 | 172 |
| 8. | Head Clerk (Regional) | 65 | 53 | 12 |
| 9. | Head Clerk (Directorate) | 8 | 7 | 1 |
| 10. | Accountant (Reg.) | 8 | 1 | 7 |
| 11. | Accountant (Directorate) | 2 | 2 | 0 |
| 12. | Asst. Statistician | 1 | 0 | 1 |
| 13. | Computing Spr. | 2 | 2 | 0 |
| 14. | Computor | 7 | 0 | 7 |
| 15. | UDC (Regional) | 327 | 121 | 206 |
| 16. | UDC (Directorate) | 26 | 20 | 6 |
| 17. | Typist (Directorate) | 15 | 6 | 9 |
| 18. | Typist (Regional) | 28 | 1 | 27 |



| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|-------------------------------|-------------------|-------------------|-----------|
| 19 | LDC (Regional) | 327 | 79 | 248 |
| 20 | LDC (Directorate) | 26 | 5 | 21 |
| 21 | Statistician | 1 | 0 | 1 |
| 22 | Drivers | 146 | 39 | 107 |
| 23. | Agriculture Extension Officer | 2 | 0 | 2 |
| 24. | Asst. Foreman (Mech.) | 4 | 0 | 4 |
| 25. | Asst. Saw Doctor | 2 | 1 | 1 |
| 26. | Attendant | 1 | 0 | 1 |
| 27. | Asst. Soil Chemist | 1 | 0 | 1 |
| 28. | Band Saw operator | 10 | 1 | 9 |
| 29. | Bearer | 3 | 1 | 2 |
| 30. | Boatman | 102 | 25 | 77 |
| 31. | Boiler Driver | 1 | 0 | 1 |
| 32. | Boiler Fireman | 3 | 0 | 3 |
| 33. | Bunglow Chowkidar | 94 | 66 | 28 |
| 34. | Bengali Translator | 1 | 1 | 0 |
| 35. | Cashaub | 1 | 0 | 1 |
| 36. | Chowkidar | 2 | 1 | 1 |
| 37. | Cleaner/Truck Cleaner | 27 | 16 | 11 |
| 38. | Cook | 4 | 0 | 4 |
| 39. | Cook-cum-Bearer | 2 | 1 | 1 |
| 40. | Crane Operator | 3 | 2 | 1 |
| 41. | Cross-cut-Operator | 6 | 1 | 5 |
| 42. | C.T.Mobile Medical Unit | 1 | 0 | 1 |
| 43 | Compounder | 1 | 1 | 0 |
| 44 | Dakwalla | 104 | 47 | 57 |
| 45 | Darwan | 34 | 23 | 11 |
| 46 | Draftsman/Head Draftsman | 35 | 16 | 19 |
| 47 | Driver-cum-Mechanic | 3 | 0 | 3 |
| 48 | Duftary | 13 | 6 | 7 |
| 49 | Duplicating Operator | 1 | 1 | 0 |
| 50 | Electrician | 1 | 1 | 0 |
| 51 | Engine Driver | 9 | 4 | 5 |
| 52 | Electric Workman | 4 | 1 | 3 |
| 53 | ECG Technician | 1 | 0 | 1 |



| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|----------------------------|-------------------|-------------------|-----------|
| 54 | Fitter | 1 | 0 | 1 |
| 55 | Forest Watcher | 13 | 1 | 12 |
| 56 | Forest Worker | 17 | 6 | 11 |
| 57 | GDA (Medical Unit) | 2 | 0 | 2 |
| 58 | Gate Operator/ H.G.O. | 5 | 1 | 4 |
| 59 | Grass Cutter | 22 | 2 | 20 |
| 60 | Game Watcher | 2 | 1 | 1 |
| 61 | Game Guard | 4 | 0 | 4 |
| 62 | Installation Guard | 10 | 0 | 10 |
| 63 | Kiln Supervisor | 1 | 0 | 1 |
| 64 | Laskar | 17 | 6 | 11 |
| 65 | Lathe man | 1 | 0 | 1 |
| 66 | Laboratory Assistant | 3 | 0 | 3 |
| 67 | Laboratory Attendant | 1 | 1 | 0 |
| 68 | Mahut | 23 | 3 | 20 |
| 69 | Majhi | 44 | 12 | 32 |
| 70 | Mali | 193 | 112 | 81 |
| 71 | Medical Officer | 2 | 0 | 2 |
| 72 | Mosalchi | 1 | 0 | 1 |
| 73 | Muharrir Grade-I, Grade-II | 2 | 1 | 1 |
| 74 | Museum Darwan | 1 | 0 | 1 |
| 75 | Night Guard | 11 | 6 | 5 |
| 76 | Night Watchman | 5 | 1 | 4 |
| 77 | Nurse | 2 | 0 | 2 |
| 78 | Oil Man – greaser | 9 | 3 | 6 |
| 79 | Orderly | 534 | 437 | 97 |
| 80 | Peon | 102 | 70 | 32 |
| 81 | Office Supdt. | 1 | 1 | 0 |
| 82 | Pharmacist | 2 | 0 | 2 |
| 83 | Power Saw Operator | 5 | 0 | 5 |
| 84 | Pump Driver | 1 | 0 | 1 |
| 85 | Road Roller Driver | 3 | 0 | 3 |
| 86 | Record Supplier | 2 | 2 | 0 |
| 87 | Renepont Operator | 2 | 0 | 2 |
| 88 | Road Roller Mate | 3 | 0 | 3 |



| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|-----------------------------|-------------------|-------------------|-----------|
| 89 | Research Officer | 1 | 0 | 1 |
| 90 | Ropeway Motor Driver | 7 | 0 | 7 |
| 91 | Road Khalasi | 3 | 0 | 3 |
| 92 | Saw Doctor | 1 | 0 | 1 |
| 93 | Serang | 7 | 3 | 4 |
| 94 | Skilled Mazdoor | 10 | 0 | 10 |
| 95 | Station Helper | 5 | 0 | 5 |
| 96 | Personal Assistant | 48 | 22 | 26 |
| 97 | Sub-Station Operator | 2 | 1 | 1 |
| 98 | Karmabandhu (Sweeper) | 52 | 22 | 30 |
| 99 | Sukhani | 5 | 1 | 4 |
| 100 | Tractor Driver | 1 | 0 | 1 |
| 101 | Tractor Mate | 5 | 0 | 5 |
| 102 | Taxidermist | 1 | 0 | 1 |
| 103 | Ticket Seller | 1 | 0 | 1 |
| 104 | Technical Asstt. | 1 | 1 | 0 |
| 105 | Tractor Mount Roller Driver | 1 | 1 | 0 |
| 106 | Unskilled Mazdoor | 46 | 1 | 45 |
| 107 | Veterinary Officer | 1 | 0 | 1 |
| 108 | Watcher | 1 | 1 | 0 |
| 109 | Wildlife Guard | 1 | 1 | 0 |
| 110 | X-Ray Assistant | 1 | 1 | 0 |
| 111 | Karmasathi (Zamadar } | 2 | 0 | 2 |

PARKS & GARDENS WING

| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|-----------------------------|-------------------|-------------------|-----------|
| 1 | Garden Supervisor | 22 | 13 | 9 |
| 2 | Head Uddyan Rakshi | 31 | 11 | 20 |
| 3 | Horticulture Officer | 5 | 0 | 5 |
| 4 | Senior Horticulture Officer | 2 | 0 | 2 |
| 5 | Senior Mali | 70 | 37 | 33 |
| 6 | Supdt. Horticulture officer | 1 | 1 | 0 |
| 7 | Uddyan Rakshi | 126 | 92 | 34 |
| 8 | Uddyan Shramik | 284 | 160 | 124 |



LLOYD BOTANIC GARDEN

| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|-----------------------|-------------------|-------------------|-----------|
| 1 | Black smith | 1 | 0 | 1 |
| 2 | Carpenter | 1 | 1 | 0 |
| 3 | CT | 1 | 0 | 1 |
| 4 | Darwan | 6 | 2 | 4 |
| 5 | Head Mali | 1 | 0 | 1 |
| 6 | Herbarium Cleaner | 4 | 0 | 4 |
| 7 | Horticulture Officer | 1 | 0 | 1 |
| 8 | Junior Mali | 1 | 0 | 1 |
| 9 | Lebel Writer | 1 | 0 | 1 |
| 10 | Man Mazdoor | 11 | 3 | 8 |
| 11 | Night Guard/Chowkidar | 1 | 0 | 1 |
| 12 | Orchid Supervisor | 1 | 0 | 1 |
| 13 | Orderly | 1 | 1 | 0 |
| 14 | Plant Collector | 1 | 0 | 1 |
| 15 | Peon | 1 | 1 | 0 |
| 16 | Sardar | 1 | 0 | 1 |
| 17 | Senior Mali | 1 | 1 | 0 |
| 18 | Store Keeper | 1 | 0 | 1 |
| 19 | Karmabandhu (Sweeper) | 2 | 0 | 2 |
| 20 | UDC | 1 | 1 | 0 |
| 21 | Women Mazdoor | 25 | 0 | 25 |

SUPERNUMERARY POSTS

| | |
|--------------|------|
| Bana Majdoor | 103 |
| Bana Shramik | 1559 |

3.2.4 Administrative Units under Forest Directorate

| | Circle headed by CCF | Circle headed by CF | Division | Range | Beat |
|-------------------|----------------------|---------------------|-----------|------------|-------------|
| Territorial | 7 | 2 | 29 | 194 | 600 |
| Wildlife | 3 | 3 | 6 | 52 | 139 |
| Soil Conservation | 1 | 1 | 2 | 13 | 24 |
| Functional | 10 | 6 | 21 | 238 | 368 |
| Total | 21 | 12 | 58 | 497 | 1131 |



3.3 RECRUITMENT

3.3.1 Direct Recruitment

Direct recruitment of EXECUTIVE PERSONNEL:

Appointment of Forest Ranger: There has been direct recruitment of Executive personnel viz. Forest Ranger. Selection made by the Public Service Commission, West Bengal for the post of FR is 168. Being selected on the basis of results of West Bengal Forest Service & West Bengal Sub-ordinate Forest Service Examination, 2018, 63 candidates have been offered appointment to the post of Forest Ranger during the financial year 2020-21, out of which 57 candidates joined to the said post during the period.

Appointment on Compassionate Ground: During the period April, 2020 to March, 2021, no eligibility test could be conducted as no approved list of compassionate ground job was received during the year from the Department of Forests.

Special eligibility tests were held during 2019-20 time to time to judge the suitability of the candidates for appointment to different Group 'C' posts. Depending upon their educational qualification and performance in the special eligibility test having requisite physical standards, the candidates have been offered appointment in different Group C/ D posts during 2020-21 as shown below:

3.3.1. (a) Details of Selection for Appointment in Group- C on Compassionate Ground (2020-21)

| Sl No | Designation | No. of candidate selected for appointment (18 Nos.) |
|-------|------------------------|---|
| 1. | Deputy Ranger/Forester | 13 |
| 2. | Forest Guard | 3 |
| 3. | Lower Division Clerk | 2 |

3.3.1. (b) Details of Selection for Appointment in Group- D on Compassionate Ground (2020-21)

| Sl No | Designation | No. of candidates offered appointment (6 Nos.) |
|-------|-------------|--|
| 1. | Orderly | 2 |
| 2. | Mali | 3 |
| 3. | Darwan | 1 |

PROMOTION: In this period 2020-21, 196 promotion cases have been considered to the following category of staff as detailed below:

| Sl. No. | Designation | Promoted to | Total |
|---------|-------------|-----------------------|-------|
| 1. | DR/Fr. | FR | 32 |
| 2. | FG, HFG | DR/Fr. | 01 |
| 3. | FG | HFG | 23 |
| 4. | Gr.-D | FG | 105 |
| 5. | Gr.-D | LDC | 0 |
| 6. | LDC | UDC | 15 |
| 7. | UDC | Accountant (Regional) | 02 |
| | | Accountant (Circle) | 08 |
| 9. | Accountant | HC (Reg) | 07 |
| | | HC (Dir) | 03 |



TRAINING OF STAFF: During the year following category of staff sent for compulsory departmental training in different Institution/Training centre:

| Sl. No. | Designation | Number |
|---------|-------------|--------|
| 1. | FR | 1 |

3.3.2 Deployment of WBFS (DFO/DCF):

| Sl No. | Name of Division | Sl No. | Name of Division |
|--------|--|--------|---|
| 1 | DFO Working Plan I Division | 13 | DCF, Personnel |
| 2 | DFO Working Plan II Division | 14 | DCF, Legal |
| 3 | DFO Kangsabati (South) Division | 15 | DFO, Forest Utilisation Division |
| 4 | DFO, Extension Forestry Division Purulia | 16 | Director, SFTI, Hijli |
| 5 | DFO, Rupnarayan Division | 17 | DFO, Raigunj Division |
| 6 | DFO, Kharagpur Division | 18 | DFO, Siliguri SF Division |
| 7 | DFO, Purba Midnapur Division | 19 | DFO, Non Timber Forest Produce Division |
| 8 | DFO, Panchet Division | 20 | DFO, Jalpaiguri SF Division |
| 9 | DFO, Durgapur Division | 21 | DFO, Parks and Gardens (North) Division |
| 10 | DFO, 24 Parganas North Division | 22 | DFO, Jalpaiguri SC Division |
| 11 | DFO, Howrah Division | 23 | DFO, Coochbehar Division |
| 12 | DCF, Publicity Division | | |

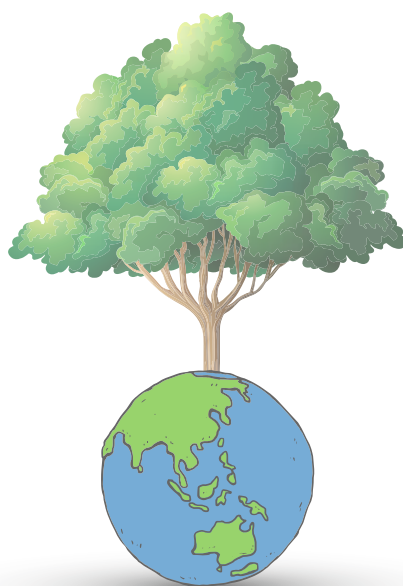
DEPLOYMENT OF WBFS (ADFO):

(Vide G.O. No. 144-For/G/4E-8/13 dated: Kolkata 24/01/2019)

| Sl. No. | Name of the Unit | Sanctioned Strength | Sl. No. | Name of the Unit | Sanctioned Strength |
|---------|-----------------------------|---------------------|---------|--------------------------|---------------------|
| 1. | CCF, South- West Circle | 1 | 15 | Jhargram Division | 2 |
| 2 | Purulia Division | 2 | 16 | Medinipur Division | 2 |
| 3 | Kangsabati North Division | 2 | 17 | Purba Medinipur Division | 1 |
| 4 | Kangsabati South Division | 2 | 18 | Kharagpur Division | 1 |
| 5 | Extension Forestry Division | 1 | 19 | Rupnarayan Division | 1 |
| 6 | CCF, South-East Circle | 1 | 20 | ADDL PCCF, North | 1 |
| 7 | Birbhum Division | 1 | 21 | CCF, Hill Circle | 1 |
| 8 | Durgapur Division | 1 | 22 | Darjeeling Division | 2 |
| 9 | Burdwan Division | 1 | 23 | Kurseong Division | 2 |
| 10 | CCF, Central Circle | 1 | 24 | Kalimpong Division | 2 |
| 11 | Bankura North Division | 2 | 25 | CCF, Northern Circle | 1 |
| 12 | Bankura South Division | 2 | 26 | Jalpaiguri Division | 2 |
| 13 | Panchet Division | 2 | 27 | Baikunthapur Division | 2 |
| 14 | CCF, Western Circle | 1 | 28 | Coochbehar Division | 1 |



| Sl. No. | Name of the Unit | Sanctioned Strength | Sl. No. | Name of the Unit | Sanctioned Strength |
|---------|--------------------------------|---------------------|---------|--------------------------------|---------------------|
| 29 | NTFP Division | 1 | 47 | Malda Division | 1 |
| 30 | CCF, Wildlife North | 1 | 48 | Jalpaiguri SC Division | 1 |
| 31 | Darjeeling Wildlife Division | 2 | 49 | Kurseong SC Division | 1 |
| 32 | Gorumara Wildlife Division | 2 | 50 | Silviculture Hills Division | 1 |
| 33 | Jaldapara Wildlife Division | 2 | 51 | Silviculture North Division | 1 |
| 34 | BTR East Division | 2 | 52 | Silviculture South Division | 1 |
| 35 | BTR West Division | 2 | 53 | WBF School | 1 |
| 36 | Wildlife HQ Division | 2 | 54 | FTC, Rajabhatkhawa | 1 |
| 37 | STR Division | 2 | 55 | SFTI, Hijli | 2 |
| 38 | 24 Parganas North Division | 1 | 56 | Working Plan North Division | 1 |
| 39 | 24 Parganas South Division | 2 | 57 | Working Plan South-I Division | 1 |
| 40 | Nadia-Murshidabad Division | 2 | 58 | Working Plan South-II Division | 1 |
| 41 | Howrah Division | 1 | 59 | Monitoring South Division | 1 |
| 42 | URF Division | 1 | 60 | Monitoring North Division | 1 |
| 43. | Parks & Garden, North Division | 1 | 61 | Publicity Division | 1 |
| 44. | Siliguri SF Division | 1 | 62 | Forest Utilization Division | 1 |
| 45 | Raiganj SF Division | 1 | 63 | PM Cell | 1 |
| 46 | Jalpaiguri SF Division | 1 | 64 | DCF, Administration | 1 |



মাননীয় মুখ্যমন্ত্রী মমতা বন্দ্যোপাধ্যায় -এর অনুপ্রেরণায়

কপোতিকা শ্রুতগ্রেয় কুলের মাঝে



শ্রী ১৯৮১
১৯৮১



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SCHEMES & PROGRAMMES

CHAPTER - 4

National Afforestation and Eco-Development Board (NAEB), Ministry of Environment, Forests and Climate Change, Government of India launched the National Afforestation Programme (NAP) to be implemented by Forest Development Agencies (FDA) of the States during 10th Plan period. As per its guidelines, a State Level Co-ordination Committee was formed vide Notification No.5890-For dated 10.12.2007 and No.3491-For dated 18.08.2010. Subsequently, in compliance with guidelines of the NAEB, 'West Bengal State Forest Development Agency' (WBSFDA) was registered as Society in the year 2010.

In addition to the NAP program, WBSFDA was made one of the signatories of the quadripartite agreement for implementation of the 'Capacity Development for Forest Management & Training of Personnel' funded by JICA in 2010.

Regulations for WBSFDA were notified vide Notification No.1130-FR/IIIM-19/2003 dated 10th June, 2014.

Some of the key schemes taken up by the WBSFDA and their performance in the year 2020-21 are given below:

4.1 ECO-TOURISM

In March 2015, WBSFDA had started the Online Booking System for different eco-tourism centres in the State. The web site was www.wbsfda.gov.in. Recently WBSFDA has launched its new revamped website www.wbsfda.org for online booking of Eco-tourism Centres, Elephant Ride and Car Safari. The inventory of accommodation in the Eco-tourism Centres and receipts during 2020-21 is given below:

4.1.1 Statement of Eco-Tourism Activities

(in ₹)

| Sl. No. | Division | Receipts from Eco-Tourism Activities |
|---------|---------------------|--------------------------------------|
| 1 | Purulia | 2,09,600.00 |
| 2 | Kangsabati (N) | 28,100.00 |
| 3 | Kangsabati (S) | 37,220.00 |
| 4 | Burdwan | 57,200.00 |
| 5 | Birbhum | 22,93,897.00 |
| 6 | Durgapur | 13,100.00 |
| 7 | Nadia - Murshidabad | 14,37,725.00 |
| 8 | Bankura (N) | 5,52,964.00 |
| 9 | Bankura (S) | 31,000.00 |
| 10 | Panchet | 29,800.00 |
| 11 | Rupnarayan | 20,200.00 |
| 12 | Kharagpur | 55,060.00 |
| 13 | Medinipur | 20,58,777.00 |
| 14 | Jhargram | 3,26,460.00 |



| Sl. No. | Division | Receipts from Eco-Tourism Activities |
|--------------|---------------------|--------------------------------------|
| 15 | Purba Medinipur | 27,900.00 |
| 16 | URF | 1,13,12,476.00 |
| 17 | Parks & Gardens (N) | 94,03,240.00 |
| 18 | Kurseong | 81,600.00 |
| 19 | Darjeeling | 40,900.00 |
| 20 | Darjeeling WL | 1,23,63,042.00 |
| 21 | Gorumara WL | 94,11,601.00 |
| 22 | Jaldapara WL | 1,21,87,641.00 |
| 23 | Baikunthapur | 40,100.00 |
| 24 | Jalpaiguri | 19,21,215.00 |
| 25 | Coochbehar | 3,41,250.00 |
| 26 | Silviculture (Hill) | 3,09,140.00 |
| 27 | Silviculture (N) | 21,000.00 |
| 28 | Silviculture (S) | 21,000.00 |
| 29 | Kurseong SC | 4,700.00 |
| 30 | Kalimpong | 74,672.00 |
| 31 | Malda | 3,600.00 |
| 32 | Raiganj | 10,55,000.00 |
| 33 | SFTI, Hijli | 1,200.00 |
| 34 | WBFS, Dowhill | 12,300.00 |
| 35 | DCF, Administration | 1,69,900.00 |
| Total | | 6,59,54,580.00 |

4.2 WILDLIFE DEPREDATION FUND

Fund was allotted for compensating the beneficiaries against Death, Injury, Crop Damage and Livestock damage owing to wild animal attack under Wildlife Depredation Fund.

4.2.1 Status of fund for Wildlife Depredation

(in ₹ Lakh)

| Sl No. | Divisions | Total Allotment | Release |
|--------|-------------|-----------------|---------|
| 1 | Rupnarayan | 60.00 | 60.00 |
| 2 | Kharagpur | 85.00 | 85.00 |
| 3 | Medinipur | 193.00 | 193.00 |
| 4 | Jhargram | 125.00 | 125.00 |
| 5 | Bankura (N) | 39.00 | 39.00 |
| 6 | Bankura (S) | 4.00 | 4.00 |
| 7 | Panchet | 10.00 | 10.00 |



| SI No. | Divisions | Total Allotment | Release |
|--------------|-----------------|-----------------|----------------|
| 8 | Baikunthapur | 35.00 | 35.00 |
| 9 | Jalpaiguri | 50.00 | 50.00 |
| 10 | Coochbehar | 2.00 | 2.00 |
| 11 | Purulia | 40.00 | 40.00 |
| 12 | Darjeeling – WL | 13.00 | 13.00 |
| 13 | Gorumara – WL | 60.00 | 60.00 |
| 14 | Jaldapara – WL | 95.00 | 95.00 |
| 15 | Burdwan | 2.00 | 2.00 |
| 16 | BTR (E) | 34.70 | 34.70 |
| 17 | BTR (W) | 37.00 | 37.00 |
| 18 | 24-Pargans(S) | 8.00 | 8.00 |
| 19 | STR | 20.00 | 20.00 |
| 20 | Kurseong | 80.30 | 80.30 |
| 21 | Darjeeling | 4.00 | 4.00 |
| 22 | Kalimpong | 9.00 | 9.00 |
| Total | | 1006.00 | 1006.00 |

4.3 GREEN INDIA MISSION

WBSFDA is the implementing Agency of Green India Mission for the State.

Fund received from Gol = ₹1571.08 lacs

4.3.1 Fund Received for felling, logging in connection with land diversion:

| Nature of Works | Fund Received | Fund Utilised |
|---|---------------|---------------|
| NHIDCL (Kalimpong) Fund received against tree felling under felling logging scheme. | 135.26 lacs | 72.96 lacs |

4.4 NMPB SCHEME

Funds were received in different stages from Government of India, Department of Ayurveda, Yoga & Naturopathy, Unani, Siddha & Homeopathy (AYUSH) of the Ministry of Health & Family Welfare for emphasising the importance of medicinal plants, its cultivation, production and marketing and strengthening the natural product based system for health and welfare.

| Project Name | Fund received | Allotment | Expenditure |
|--|---------------|---------------|---------------|
| For "Socio-Economic Upliftment of JFMC through Conservation of Medicinal Plants, Value Addition & Marketing of Medicinal plants" – to be implemented in 225 FPCs of 9 Divisions in the State of West Bengal. | ₹ 667.92 lacs | ₹ 645.69 lacs | ₹ 592.17 lacs |
| For Revisiting MPCAs in West Bengal. | ₹ 54.54 lacs | ₹ 41.14 lacs | ₹ 31.15 lacs |
| 7 new MPCAs | ₹ 57.34 lacs | ₹ 18.67 lacs | ₹ 14.33 lacs |



4.5 PARKS & GARDENS & ECO-TOURISM ACTIVITIES

During the year 2020-21 WBSFDA have received funds from different divisions under Parks & Gardens & Eco-tourism Activities.

| Year | Fund Received | |
|---------|-----------------|------------------------|
| | Parks & Gardens | Eco-tourism Activities |
| 2020-21 | 225.57 lacs | 443.56 lacs |

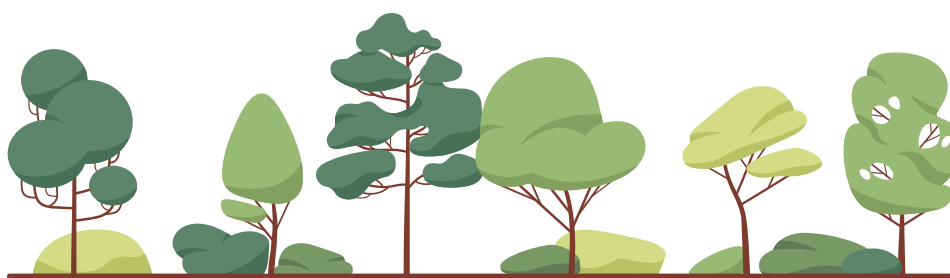
4.6 DIGHA SHANKARPUR DEV. FUND (PURBA – MEDINIPUR)

The project viz. 'Beautification from Railway Station Ghat to Police Holiday Home Ghat along the beach road' was allotted to Purba Medinipur Division, for which funding was provided by Digha Shankarpur Development Authority (DSDA).

| Particulars | Amount (₹ In Lakhs) |
|---------------|---------------------|
| Fund Received | 260.16 lacs |
| Fund utilised | 257.74 lacs |

4.7 TREE FELLING

| Particulars | Amount (₹ In lacs) |
|---------------|--------------------|
| Fund Received | 71.93 lacs |
| Refund | 17.35 lacs |



AFFORESTATION PROGRAMMES

CHAPTER - 5

5.1 AFFORESTATION

One of the objectives of National Forest Policy, 1988, is to increase the National Forest cover to 33% of the geographical area. The main area of activity is creation, maintenance and preservation of plantations on both degraded forest lands, non forest Government lands and private lands through the following schemes.

- a. Economic Plantation:** This Scheme is meant for the plains of Dooars in North Bengal and comprises of plantation of timber producing species.
- b. Plantation of Quick Growing Species:** Under this scheme mainly industrial plantations over laterite zone are created along with maintenance of older plantations.
- c. Coastal Shelterbelt Plantation:** Mainly plantations in Coastal areas are taken up under this program with the objective of mitigating the fury of cyclones along the coastal areas. This program is taken up mainly in Medinipur district and some areas of 24 Parganas South district.
- d) Mangrove Treatment:** The Scheme aims at rehabilitation of mangrove forests in Sundarban areas

by taking afforestation in saline blank patches, newly accredited areas on account of deltaic accrual of lands, sandy blanks etc.

- e. Forestry Treatment:** In view of a very wide range of Agro-ecological conditions prevailing in this state, altogether 12 treatment models have been adopted, which are grouped in two broad categories, namely (a) Rehabilitation of degraded forest lands which constitutes the largest component of treatment models involving JFMCs including regeneration of degraded Sal forests in SW Bengal from viable root stocks and partly in North Bengal for similar areas. Enrichment planting is also undertaken in blank pockets within this areas and (b) Forestry development on Non Forest Lands the principal focus of which is on the Farm Forestry, which is directed towards small and marginal Farmers. This also includes promotion of Agro-Forestry systems.
- f. Strip Plantation/Farm Forestry:** This Scheme is meant for a part of the area that has been earmarked for strip plantation along national highways, canal embankments, roadside plantation and in such strips.





Table 5.1 EXPENDITURE DETAILS OF PLANTATION HEAD FOR 2020-21

| SL No | SL Head | Budget Provision (₹) | Creation including DPN | | Maintenance | | Advance Work including DPN | | Total Expenditure against plantation work | | |
|--------------|--|----------------------|------------------------|------------------|-----------------|------------------|----------------------------|-----------------|---|-----------------|------------------|
| | | | Phy. (ha.) | Fin (₹) | Phy. (ha.) | Fin (₹) | Phy. (Nos) | Fin (₹) | (Ha.) | (Nos) | Financial (₹) |
| 1 | 4406-01-101-00-001-Forest Conservation & Regeneration-87-V | 750000000 | 7299.50 | 428660281 | 11290.04 | 162531482 | 13145000 | 68830000 | 18589.54 | 13145000 | 421176451 |
| 2 | 4406-01-789-00-002-Forest Conservation & Regeneration-87-V | 605000000 | | | 3159.14 | 26418012 | | | 3159.14 | | 26193937 |
| 3 | 4406-01-789-00-003-Forest Conservation & Regeneration-87-V | 650000000 | 4088 | 16351052 | | | 8064000 | 18264960 | 4088 | 8064000 | 34558777 |
| 4 | 4406-01-796-00-002-Forest Conservation & Regeneration-87-V | 395000000 | | | 4653.8 | 39367230 | | | 4653.8 | | 39169508 |
| Total | | 915000000 | 11387.5 | 445011333 | 19102.98 | 228316724 | 21209000 | 87094960 | 30490.48 | 21209000 | 521098673 |

5.2 PROGRESS OF AFFORESTATION THROUGH SUCCESSIVE PLANS

| Sl. No. | Plan Period | Area Afforested in Plan Period (Ha.) |
|---------|-----------------------------|--------------------------------------|
| 1 | FIRST (1951-56) | 9,570 |
| 2 | SECOND (1956-61) | 14,625 |
| 3 | THIRD (1961-66) | 17,700 |
| 4 | (1966-1969) | 13,341 |
| 5 | FOURTH (1969-74) | 32,920 |
| 6 | FIFTH (1974-79) | 50,015 |
| 7 | (1979-80) | 14,000 |
| 8 | SIXTH (1980-85) | 1,65,026 |
| 9 | SEVENTH (1985-90) | 2,94,568 |
| 10 | (1990-91) | 63,352 |
| 11 | (1991-92) | 67,908 |
| 12 | EIGHTH (1992-1997) | 2,99,630 |
| 13 | NINTH (1997-2002) | 1,00,839 |
| 14 | TENTH (2002-2007) | |
| | (2002-2003) | 13,481 |
| | (2003-2004) | 10,104 |
| | (2004-2005) | 14,592 |
| | (2005-2006) | 13,352 |
| | (2006-2007) | 15,382 |
| 15 | ELEVENTH (2007-2012) | |
| | (2007-2008) | 13,387 |
| | (2008-2009) | 18,707 |
| | (2009-2010) | 15,043 |
| | (2010-2011) | 14,101 |
| | (2011-2012) | 10,374.23 |
| 16 | (2012-2013) | 10,560 |
| 16 | (2013-2014) | 14,864 |
| 16 | (2014-2015) | 11,169.71 |
| 16 | (2015-2016) | |
| 16 | (2016-2017) | |
| 16 | (2017-2018) | |
| 16 | (2018-2019) | |
| 16 | (2019-2020) | |





STATUS OF REVENUE AND EXPENDITURE

CHAPTER - 6

Revenue of the Forest Directorate, Government of West Bengal is generated through sale of forest products, tariffs and royalties, rents, taxes, levies, fees and other charges. During 2020-2021 total Revenue earned was ₹5151.35

Lakhs. Maximum revenue was generated by the Central Circle (₹ 1492.35 Lakhs). Details of Revenue and Expenditure during 2020-2021 were as follows:

Table 6.1 REVENUE FROM MAJOR HEADS 2020-2021

| Heads | ₹ in Lakhs |
|---------------------|----------------|
| Timber & poles | 3735.46 |
| Fire wood& Charcoal | 93.46 |
| Grazing | 0.00 |
| Minor F.P | 8.25 |
| Bamboo | 769.12 |
| Others | 545.06 |
| Total | 5151.35 |

Table 6.2 ACTUAL EXPENDITURE 2020-2021

| Major Head | Rupees |
|----------------------------|-------------------|
| State Development Scheme | 1675474052 |
| Administrative Expenditure | 4617525143 |
| Total | 6292999195 |

Table 6.3: Statement Showing unit wise Revenue during 2020-2021

(Rupees in lakhs)

| Sl | A/c Unit (DDO) | Timber | Firewood | Grazing | Minor F.P. | Bamboo | Others | Total |
|----|------------------------------------|--------|----------|---------|------------|--------|--------|--------|
| 1 | West Bengal CAMPA | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Total: | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2 | Admin & DDO General Direction Divn | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.18 |
| 3 | Publicity Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4 | Forest Utilisation Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 121.47 | 121.47 |
| | Total: Forest Directorate Hqr | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 121.65 | 121.65 |
| 5 | Monitoring (South) Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6 | Monitoring (North) Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.17 |
| | Total: Monitoring Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.17 |
| 7 | Working Plan & GIS Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8 | Working Plan (South) Division - I | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9 | Working Plan (South) Division - II | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10 | Working Plan (North) Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 |
| | Total: Working Plan & GIS Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 | 0.02 |



| Sl | A/c Unit (DDO) | Timber | Firewood | Grazing | Minor F.P. | Bamboo | Others | Total |
|----|--|---------|----------|---------|------------|--------|--------|---------|
| 11 | Research Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 12 | Silviculture (South) Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.49 | 0.49 |
| 13 | Silviculture (North) Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 14 | Silviculture (Hill) Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Total: Research Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.49 | 0.49 |
| 15 | Development Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 16 | West Bengal Forest School | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 17 | State Forest Training Institute | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Total: Development Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 18 | South-West Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 19 | Purulia Division | 1.49 | 0.00 | 0.00 | 0.00 | 0.00 | 5.25 | 6.74 |
| 20 | Kangsabati (North) Division | 1.62 | 0.65 | 0.00 | 0.00 | 0.00 | 3.84 | 6.11 |
| 21 | Kangsabati (South) Division | 4.21 | 0.00 | 0.00 | 0.00 | 0.00 | 11.34 | 15.55 |
| 22 | Extension Forestry Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.08 |
| | Total: South-West Circle | 7.32 | 0.65 | 0.00 | 0.00 | 0.00 | 20.51 | 28.48 |
| 23 | Urban & Recreational Forestry Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.53 | 0.53 |
| 24 | Parks & Gardens (North) Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.48 | 2.48 |
| 25 | Howrah Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 24.26 | 24.26 |
| | Total: Parks & Gardens Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.27 | 27.27 |
| 26 | Burdwan Division | 128.77 | 0.00 | 0.00 | 0.00 | 0.00 | 15.45 | 144.22 |
| 27 | Birbhum Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.59 | 8.59 |
| 28 | Durgapur Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 64.19 | 64.19 |
| | Total: South-East Circle | 128.77 | 0.00 | 0.00 | 0.00 | 0.00 | 88.23 | 217.00 |
| 29 | Jhargram Division | 336.31 | 1.98 | 0.00 | 1.64 | 0.00 | 1.85 | 341.78 |
| 30 | Medinipur Division | 452.86 | 7.49 | 0.00 | 0.00 | 0.00 | 9.40 | 469.75 |
| 31 | Kharagpur Division | 95.41 | 0.02 | 0.00 | 0.00 | 0.54 | 4.48 | 100.45 |
| 32 | Rupnarayan Division | 289.56 | 6.72 | 0.00 | 0.00 | 0.00 | 6.05 | 302.33 |
| 33 | Purba Medinipur Division | 38.22 | 0.00 | 0.00 | 0.00 | 0.00 | 0.29 | 38.51 |
| | Total: Western Circle | 1212.36 | 16.21 | 0.00 | 1.64 | 0.54 | 22.07 | 1252.82 |
| 34 | Bankura (North) Division | 652.64 | 22.43 | 0.00 | 0.00 | 0.00 | 2.49 | 677.56 |
| 35 | Bankura (South) Division | 0.10 | 6.51 | 0.00 | 0.00 | 0.00 | 26.10 | 32.71 |
| 36 | Panchet Division | 7.29 | 5.40 | 0.00 | 0.00 | 767.75 | 1.64 | 782.08 |
| | Total: Central Circle | 660.03 | 34.34 | 0.00 | 0.00 | 767.75 | 30.23 | 1492.35 |
| 37 | Sundarbans Tiger Reserve | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 25.46 | 25.79 |
| | Total: Sunderbans Tiger Reserve | 0.00 | 0.00 | 0.00 | 0.33 | 0.00 | 25.46 | 25.79 |
| 38 | Sunderbans Biosphere Reserve | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |



| SI | A/c Unit (DDO) | Timber | Firewood | Grazing | Minor F.P. | Bamboo | Others | Total |
|----|---------------------------------------|---------|----------|---------|------------|--------|--------|---------|
| 39 | 24-Parganas (South) Division | 0.00 | 34.16 | 0.00 | 0.00 | 0.00 | 5.06 | 39.22 |
| 40 | 24-Parganas (North) Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 41 | Nadia-Murshidabad Division | 1.94 | 0.17 | 0.00 | 0.28 | 0.01 | 14.92 | 17.32 |
| | Total: Sunderbans Biosphere Reserve | 1.94 | 34.33 | 0.00 | 0.28 | 0.01 | 19.98 | 56.54 |
| 42 | Wildlife (Headquarter) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.43 |
| | Total: Wildlife (Headquarter) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.43 | 0.43 |
| 43 | Wildlife (North) Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 44 | Darjeeling Wildlife Division | 0.61 | 0.83 | 0.00 | 0.00 | 0.00 | 4.74 | 6.18 |
| 45 | Gorumara Wildlife Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.92 | 0.92 |
| 46 | Jaldapara Wildlife Division | 0.93 | 6.86 | 0.00 | 0.00 | 0.00 | 12.37 | 20.16 |
| | Total: Wildlife (North) Circle | 1.54 | 7.69 | 0.00 | 0.00 | 0.00 | 18.03 | 27.26 |
| 47 | Buxa Tiger Reserve | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 48 | Buxa Tiger Reserve (West) | 122.57 | 0.00 | 0.00 | 0.31 | 0.00 | 12.10 | 134.98 |
| 49 | Buxa Tiger Reserve (East) | 38.31 | 0.00 | 0.00 | 0.00 | 0.00 | 12.32 | 50.63 |
| | Total: Buxa Tiger Reserve | 160.88 | 0.00 | 0.00 | 0.31 | 0.00 | 24.42 | 185.61 |
| 50 | Hill Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 51 | Darjeeling Division | 191.46 | 0.06 | 0.00 | 0.00 | 0.82 | 4.25 | 196.59 |
| 52 | Kurseong Division | 596.58 | 0.00 | 0.00 | 0.00 | 0.00 | 15.86 | 612.44 |
| 53 | Kalimpong Forest Division | 1.49 | 0.18 | 0.00 | 0.00 | 0.00 | 1.44 | 3.11 |
| | Total: Hill Circle | 789.53 | 0.24 | 0.00 | 0.00 | 0.82 | 21.55 | 812.14 |
| 54 | Northern Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 55 | Jalpaiguri Division | 205.50 | 0.00 | 0.00 | 0.00 | 0.00 | 17.47 | 222.97 |
| 56 | Baikunthapur Division | 460.09 | 0.00 | 0.00 | 0.00 | 0.00 | 11.37 | 471.46 |
| 57 | Coochbehar Division | 107.47 | 0.00 | 0.00 | 0.00 | 0.00 | 50.83 | 158.30 |
| 58 | Non-Timber Forest Produce Division | 0.00 | 0.00 | 0.00 | 5.69 | 0.00 | 0.00 | 5.69 |
| | Total: Northern Circle | 773.06 | 0.00 | 0.00 | 5.69 | 0.00 | 79.67 | 858.42 |
| 59 | North-West Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 60 | Siliguri Social Forestry Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.12 | 26.12 |
| 61 | Malda Division | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 12.14 | 12.17 |
| 62 | Jalpaiguri Social Forestry Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 63 | Raiganj Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.86 | 5.86 |
| | Total: North-West Circle | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 | 44.12 | 44.15 |
| 64 | Soil Conservation (N) Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 65 | Kurseong Soil Conservation Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 |
| 66 | Jalpaiguri Soil Conservation Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | Total: Soil Conservation (N) Circle | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.76 | 0.76 |
| | Grand Total: | 3735.46 | 93.46 | 0.00 | 8.25 | 769.12 | 545.06 | 5151.35 |



Table 6.4: Statement Showing Units-wise Actual Expenditure During 2020-2021**(Expenditure in Rupees)**

| SL. No. | Circle/Division | Administrative Expenditure | State Development Schemes (Including Central Share) | Total |
|---------|--|----------------------------|---|-------------------|
| 1 | General Direction Division | 286557368.00 | 484735421.00 | 1,08,32,07,669.00 |
| 2 | Publicity Division | 6470754.00 | 27961668.00 | 3,44,32,422.00 |
| 3 | Forest Utilisation Division | 19976138.00 | 0.00 | 1,99,76,138.00 |
| 4 | Monitoring (South) Division | 40707531.00 | 2678618.00 | 4,33,86,149.00 |
| 5 | Monitoring (North) Division | 15374134.00 | 157263.00 | 1,55,31,397.00 |
| 6 | Working Plan & GIS Circle | 9764164.00 | 439400.00 | 1,02,03,564.00 |
| 7 | Working Plan (South) Division-I | 20873848.00 | 1650145.00 | 2,25,23,993.00 |
| 8 | Working Plan (South) Division-II | 14091146.00 | 1649640.00 | 1,57,40,786.00 |
| 9 | Working Plan (North) Division | 13920142.00 | 3600080.00 | 1,75,20,222.00 |
| 10 | Research Circle | 6932467.00 | 0.00 | 69,32,467.00 |
| 11 | Silviculture (South) Division | 55919644.00 | 4805405.00 | 6,07,25,049.00 |
| 12 | Silviculture (North) Division | 30213709.00 | 5879125.00 | 3,60,92,834.00 |
| 13 | Silviculture (Hill) Division | 38783697.00 | 6426761.00 | 4,52,10,458.00 |
| 14 | Development Circle | 6911880.00 | 0.00 | 69,11,880.00 |
| 15 | West Bengal Forest School | 18837078.00 | 0.00 | 1,88,37,078.00 |
| 16 | State Forest Training Institute | 18537888.00 | 0.00 | 1,85,37,888.00 |
| 17 | South-West Circle | 7244064.00 | 0.00 | 72,44,064.00 |
| 18 | Purulia Division | 190829326.00 | 36104145.00 | 22,83,70,071.00 |
| 19 | Kangsabati (North) Division | 89076909.00 | 34654924.00 | 12,39,95,833.00 |
| 20 | Kangsabati (South) Division | 91093381.00 | 19324523.00 | 11,06,16,305.00 |
| 21 | Extension Forestry Division | 47261135.00 | 5459064.00 | 5,27,20,199.00 |
| 22 | Urban & Recreational Forestry Division | 172793569.00 | 12728167.00 | 18,55,21,736.00 |
| 23 | Parks & Gardens (North) Division | 64649748.00 | 28069399.00 | 9,27,19,147.00 |
| 24 | Howrah Division | 54846633.00 | 26535836.00 | 8,13,82,469.00 |
| 25 | Burdwan Division | 99861594.00 | 38007615.00 | 13,81,65,309.00 |
| 26 | Birbhum Division | 95212409.00 | 64725122.00 | 16,10,85,014.00 |
| 27 | Durgapur Division | 78878385.00 | 15635757.00 | 9,46,70,771.00 |
| 28 | Jhargram Division | 185963589.00 | 20398883.00 | 20,69,12,974.00 |
| 29 | Medinipur Division | 169623534.00 | 38195717.00 | 20,84,22,251.00 |
| 30 | Kharagpur Division | 117311295.00 | 32442888.00 | 15,07,95,683.00 |
| 31 | Rupnarayan Division | 90840575.00 | 23308305.00 | 11,45,15,164.00 |
| 32 | Purba Medinipur Division | 72258274.00 | 18256109.00 | 9,05,14,383.00 |
| 33 | Bankura (North) Division | 109498773.00 | 31304806.00 | 14,14,62,370.00 |
| 34 | Bankura (South) Division | 108821307.00 | 78589975.00 | 18,79,59,322.00 |



| SL. No. | Circle/Division | Administrative Expenditure | State Development Schemes (Including Central Share) | Total |
|---------|---------------------------------------|----------------------------|---|--------------------------|
| 35 | Panchet Division | 83497144.00 | 47099578.00 | 13,11,35,592.00 |
| 36 | Sundarbans Tiger Reserve | 140629641.00 | 89555468.00 | 27,26,15,483.00 |
| 37 | Sundarbans Biosphere Reserve | 17599386.00 | 3057690.00 | 2,18,79,361.00 |
| 38 | 24 Parganas (South) Division | 132448359.00 | 76213010.00 | 22,46,11,141.00 |
| 39 | 24 Parganas (North) Division | 51169486.00 | 11850484.00 | 6,67,75,900.00 |
| 40 | Nadia-Murshidabad Division | 110030802.00 | 19446723.00 | 13,35,51,463.00 |
| 41 | Wildlife (Headquarter) | 51037697.00 | 12412336.00 | 6,34,50,033.00 |
| 42 | Wildlife (North) Circle | 12447803.00 | 199996.00 | 1,26,47,799.00 |
| 43 | Darjeeling Wildlife Division | 97490009.00 | 21188876.00 | 12,60,58,159.00 |
| 44 | Gorumara Wildlife Division | 107045287.00 | 35521105.00 | 14,99,37,880.00 |
| 45 | Jaldapara Wildlife Division | 178854186.00 | 53924355.00 | 23,63,64,300.00 |
| 46 | Buxa Tiger Reserve | 17443027.00 | 30228864.00 | 6,95,69,905.00 |
| 47 | Bixa Tiger Reserve (West) | 175657333.00 | 22608332.00 | 20,53,16,944.00 |
| 48 | Bixa Tiger Reserve (East) | 154466557.00 | 28684128.00 | 18,99,09,199.00 |
| 49 | Hill Circle | 13748022.00 | 0.00 | 1,37,48,022.00 |
| 50 | Darjeeling Division | 77832101.00 | 11264655.00 | 9,02,40,691.00 |
| 51 | Kurseong Division | 104376526.00 | 7737859.00 | 11,24,55,185.00 |
| 52 | Kalimpong Forest Division | 49369543.00 | 11878978.00 | 6,15,04,121.00 |
| 53 | Northern Circle | 8755618.00 | 0.00 | 87,55,618.00 |
| 54 | Jalpaiguri Division | 124967293.00 | 19022014.00 | 14,43,94,307.00 |
| 55 | Baikunthapur Division | 108885753.00 | 15146856.00 | 12,43,56,609.00 |
| 56 | Coochbehar Division | 67417369.00 | 9670491.00 | 7,78,74,173.00 |
| 57 | Non-Timber Forest Produce Division | 15359010.00 | 963282.00 | 1,63,22,292.00 |
| 58 | North-West Circle | 9376024.00 | 0.00 | 93,76,024.00 |
| 59 | Siliguri Social Forestry Division | 23957624.00 | 6059514.00 | 3,00,17,138.00 |
| 60 | Malda Division | 58230149.00 | 9499434.00 | 6,77,29,583.00 |
| 61 | Jalpaiguri Social Forestry Division | 19901002.00 | 4239595.00 | 2,41,40,597.00 |
| 62 | Raiganj Division | 53960549.00 | 27296238.00 | 8,26,66,657.00 |
| 63 | Soil Conservation (N) Circle | 11128969.00 | 0.00 | 1,11,28,969.00 |
| 64 | Kurseong Soil Conservation Division | 34335701.00 | 2592480.00 | 3,69,28,181.00 |
| 65 | Jalpaiguri Soil Conservation Division | 56171085.00 | 6695981.00 | 6,28,67,066.00 |
| 66 | West Bengal CAMPA | 0.00 | 27690969.00 | 2,76,90,969.00 |
| | Grand Total | 4,61,75,25,143.00 | 1,67,54,74,052.00 | 6,29,29,99,195.00 |



Table 6.5: Circle wise Total Expenditure during 2020-21Q

(Expenditure in ₹)

| Sl | Circle | Administrative Expenditure | State Development Schemes | Total |
|---------------------|------------------------------|----------------------------|---------------------------|-------------------|
| 1 | Forest Directorate Hqr | 306533506 | 172820541 | 479354047 |
| 2 | Monitoring Circle | 56081665 | 2835881 | 58917546 |
| 3 | Working Plan & GIS Circle | 58649300 | 7339265 | 65988565 |
| 4 | Research Circle | 131849517 | 17111291 | 148960808 |
| 5 | Development Circle | 44286846 | 0 | 44286846 |
| 6 | South-West Circle | 425504815 | 93643655 | 519148470 |
| 7 | Parks & Gardens Circle | 292289950 | 67333402 | 359623352 |
| 8 | South-East Circle | 273952388 | 116768282 | 390720670 |
| 9 | Western Circle | 635997267 | 130040616 | 766037883 |
| 10 | Central Circle | 301817224 | 155248658 | 457065882 |
| 11 | Sunderbans Tiger Reserve | 140629641 | 47125094 | 187754735 |
| 12 | Sunderbans Biosphere Reserve | 311248033 | 85565982 | 396814015 |
| 13 | Wildlife (Headquarter) | 51037697 | 12412336 | 63450033 |
| 14 | Wildlife (North) Circle | 395837285 | 92497811 | 488335096 |
| 15 | Buxa Tiger Reserve | 347566917 | 45813517 | 393380434 |
| 16 | Hill Circle | 245326192 | 29141157 | 274467349 |
| 17 | Northern Circle | 325385043 | 43287330 | 368672373 |
| 18 | North-West Circle | 165425348 | 45684911 | 211110259 |
| 19 | Soil Conservation (N) Circle | 101635755 | 9288461 | 110924216 |
| 20 | South Circle | 6470754 | 27961668 | 34432422 |
| Grand Total: | | 4617525143 | 1201919858 | 5819445001 |

6.6.1 State Development Scheme

Table 6.6.1: Statement showing Scheme-wise Actual Expenditure with Fund Released 2020-2021

| SL. No. | Major Head | Category | Schemes/Projects (State Development Schemes & Central Assistance) | Rupees in Lakhs | | | |
|-----------------------|------------|----------|--|-----------------|------------------------------|--------------------------------------|---------------------|
| | | | | Total Budget | Fund Released by Admin Deptt | State Development Scheme Expenditure | Percentage Utilised |
| 2401-Crop Husbandary: | | | | | | | |
| 1 | 2401 | SD | Scheme under (84)(789)RKVY (Central Share) | 150.00 | 0.00 | 0.00 | – |
| 2 | 2401 | SD | Scheme under (85)(789)RKVY (State Share) | 100.00 | 20.00 | 20.00 | 100.0% |
| 3 | 2401 | SD | Scheme under (70)(796)RKVY (Central Share) | 75.00 | 0.00 | 0.00 | – |
| 4 | 2401 | SD | Scheme under (71)(796)RKVY (State Share) | 50.00 | 0.00 | 0.00 | – |
| 5 | 2401 | SD | Addl. Central Assistance -(14) RKVY [FR] (Central Sh.) | 675.00 | 0.00 | 0.00 | – |
| 6 | 2401 | SD | Addl. Central Assistance -(23) RKVY [FR] (State Sh.) | 450.00 | 22.50 | 22.50 | 100.0% |
| Total: “2401” | | | | 1500.00 | 42.50 | 42.50 | 100.0% |



| SL. No. | Major Head | Category | Schemes/Projects (State Development Schemes & Central Assistance) | Rupees in Lakhs | | | |
|---------------------------------|------------|----------|--|-----------------|------------------------------|--------------------------------------|---------------------|
| | | | | Total Budget | Fund Released by Admin Deptt | State Development Scheme Expenditure | Percentage Utilised |
| 2402-Soil & Water Conservation: | | | | | | | |
| 1 | 2402 | SD | Protective Affn & Erosion Cont [FR] | 0.00 | 0.00 | 0.00 | – |
| | 2402 | SD | | 0.00 | 0.00 | – | – |
| | 2402 | SD | | 0.00 | 0.00 | – | |
| Total: “2402” | | | | 0.00 | 0.00 | 0.00 | – |
| 2406-Forestry & Wildlife: | | | | | | | |
| 1 | 2406 | SD | Forest Resources [FR] | 50.00 | 50.00 | 50.00 | 100.0% |
| 2 | 2406 | SD | Communication [FR] | 200.00 | 49.89 | 44.51 | 89.2% |
| 3 | 2406 | SD | Buildings [FR] | 400.00 | 69.98 | 69.71 | 99.6% |
| | 2406 | SD | | 0.00 | – | 0.00 | -- |
| | 2406 | SD | | 0.00 | – | 0.00 | -- |
| 4 | 2406 | SD | Forest Protection [FR] | 726.75 | 321.84 | 315.20 | 97.9% |
| 5 | 2406 | SD | Working Plan [FR] | 100.00 | 21.40 | 21.40 | 100.0% |
| 6 | 2406 | SD | National Mission for a Green India (State Share) (OCASPS) Grant In Aid | 389.82 | 389.82 | 389.82 | 100.0% |
| 7 | 2406 | SD | National Mission for a Green India (Central Share) (OCASPS) Grant In Aid | 584.74 | 584.74 | 584.74 | 100.0% |
| 8 | 2406 | SD | Integrated Forestry and Bio-Diversity Conservation(EAP) (Central Assistance) | 2800.00 | 1197.00 | 1197.00 | 100.0% |
| 9 | 2406 | SD | Integrated Forest Protection (Sh-Share) (OCASPS)[Central Share] | 600.00 | 78.83 | 0.00 | – |
| 10 | 2406 | SD | Plantation of QGS Growing Spp [FR] | 0.00 | – | 0.00 | – |
| 11 | 2406 | SD | Economic Plantation [FR] | 0.00 | – | 0.00 | – |
| | 2406 | SD | | 0.00 | 0.00 | – | – |
| | 2406 | SD | | 0.00 | 0.00 | – | – |
| 12 | 2406 | SD | Community Development [FR] | 37.50 | 0.00 | 0.00 | – |
| 13 | 2406 | SD | Integrated Forestry& Bio-Diversity Conservation(EAP) (EAP) | 1380.00 | 587.50 | 587.50 | 100.0% |
| 14 | 2406 | SD | Compensatory Afforestation (4) (103) (001) (50) | 100.51 | 38.65 | 31.98 | 82.7% |
| 15 | 2406 | SD | Compensatory Afforestation, Maintenance | 153.16 | 117.91 | 114.15 | 96.8% |
| 16 | 2406 | SD | Compensatory Afforestation, Minor work-Maintenance | 39.07 | 22.20 | 22.20 | 100.0% |
| 17 | 2406 | SD | Additional Compensatory Aff. (4) (103) (002) (50) | 153.24 | 0.00 | 0.00 | – |



| SL. No. | Major Head | Category | Schemes/Projects (State Development Schemes & Central Assistance) | Rupees in Lakhs | | | |
|---------|------------|----------|--|-----------------|------------------------------|--------------------------------------|---------------------|
| | | | | Total Budget | Fund Released by Admin Deptt | State Development Scheme Expenditure | Percentage Utilised |
| 18 | 2406 | SD | Penal Compensatory Afforestation (4) (103) (033) (50) | 47.40 | 6.67 | 6.47 | 97.0% |
| 19 | 2406 | SD | Net Present value of Forest Land (4) (103) (004) (50) | 3079.04 | 123.41 | 115.39 | 93.5% |
| 20 | 2406 | SD | Net Present value of Forest Land, Maintenance | 5.00 | 1.25 | 1.24 | 99.2% |
| 21 | 2406 | SD | Net Present value of Forest Land, Minor Works/ Maintenance | 500.20 | 2.17 | 2.12 | 97.7% |
| 22 | 2406 | SD | Protected Area (N.P.WL. Sanctuary) (4) (103) (005) (50) | 205.45 | 31.62 | 28.51 | 90.2% |
| 23 | 2406 | SD | State compensatory Afforestation - Others (103) (006) (50) | 12.00 | 4.00 | 3.93 | 98.3% |
| 24 | 2406 | SD | State compensatory Afforestation - Others, Maintenance / P.O.L. for Office Vehicles | 41.00 | 5.86 | 2.37 | 40.5% |
| 25 | 2406 | SD | State compensatory Afforestation - Others, Publication | 1.00 | 0.25 | 0.00 | – |
| 26 | 2406 | SD | State compensatory Afforestation - Others, Advertising and Publicity Expenses | 1.00 | 0.25 | 0.00 | – |
| 27 | 2406 | SD | State compensatory Afforestation - Others, Payment of Professional and Special Services- Other Charges | 18.00 | 3.22 | 3.48 | 107.9% |
| 28 | 2406 | SD | Research & Seed Propagation [FR] | 100.00 | 40.00 | 32.61 | 81.5% |
| | 2406 | SD | | 0.00 | 0.00 | 0.00 | – |
| | 2406 | SD | | 150.00 | 36.90 | 36.84 | 99.8% |
| 29 | 2406 | SD | Intensification of Management [FR] | 50.00 | 49.99 | 49.14 | 98.3% |
| 30 | 2406 | SD | Consv. Of Natural Res. & Eco. Sys (State Share) (OCASPS) | 300.00 | 164.77 | 149.69 | 90.8% |
| 31 | 2406 | SD | Consv. Of Natural Res. & Eco. Sys (Central Share) (OCASPS) | 600.00 | 78.83 | 78.70 | 99.8% |
| 32 | 2406 | SD | Forestry Treatment [FR] (Include. Sabujshree)(check) | 0.00 | 0.00 | 0.00 | – |
| | 2406 | SD | | 800.00 | 372.06 | 369.48 | 99.3% |
| | 2406 | SD | | 120.00 | 112.92 | 0.00 | – |
| | 2551 | SD | | 0.00 | 0.00 | 0.00 | – |
| | 2551 | SD | | 0.00 | 0.00 | 0.00 | – |



| SL. No. | Major Head | Category | Schemes/Projects (State Development Schemes & Central Assistance) | Rupees in Lakhs | | | |
|---------|------------|----------|--|-----------------|------------------------------|--------------------------------------|---------------------|
| | | | | Total Budget | Fund Released by Admin Deptt | State Development Scheme Expenditure | Percentage Utilised |
| 33 | 2406 | SD | Monitoring & Evaluation [FR] | 100.00 | 25.00 | 25.00 | 100.0% |
| 34 | 2406 | SD | Community Development [FR] | 162.00 | 12.00 | 12.00 | 100.0% |
| 35 | 2406 | SD | Other Allied Works Component [FR] | 200.00 | 42.50 | 42.46 | 99.9% |
| | 2406 | SD | | 0.00 | 0.00 | 0.00 | – |
| | 2551 | SD | | 20.00 | 0.00 | 0.00 | – |
| 36 | 2406 | SD | Integrated For. & Bio-divs Convs. (JICA) | 920.00 | 392.00 | 392.00 | 100.0% |
| 37 | 2406 | SD | National Mission for a Green India (Central Share) (OCASPS) | 357.91 | 357.91 | 357.91 | 100.0% |
| 38 | 2406 | SD | National Mission for a Green India (State Share) (OCASPS) | 238.62 | 238.62 | 238.62 | 100.0% |
| 39 | 2406 | SD | Timber Opn by Mech Loggig [FR] | 0.00 | 0.00 | 0.00 | – |
| | 2406 | SD | | 0.00 | 0.00 | 0.00 | – |
| | 2406 | SD | | 30.00 | 20.00 | 19.91 | 99.6% |
| | 2406 | SD | | 0.00 | 0.00 | 0.00 | – |
| | 2406 | SD | | 30.00 | 7.50 | 7.47 | 99.6% |
| 40 | 2406 | SD | Economic Rehab of Fringe Popln. [FR] | 0.00 | 0.00 | 0.00 | – |
| 41 | 2406 | SD | Amenity to For. Staff & Labours [FR] | 50.00 | 8.04 | 8.04 | 100.0% |
| 42 | 2406 | SD | Management Information System [FR] | 60.00 | 0.00 | 0.00 | – |
| | 2406 | SD | | 20.00 | 3.00 | 3.00 | 100.0% |
| 43 | 2406 | SD | Publicity-cum-Extension [FR] | 376.29 | 164.75 | 147.00 | 89.2% |
| 44 | 2406 | SD | Publicity-cum-Extension [FR] Advertising and Publicity Expenses | 323.71 | 323.71 | 310.26 | 95.8% |
| 45 | 2406 | SD | Nature Covn. Protection & Improvement of WL [FR] | 1030.50 | 441.77 | 440.47 | 99.7% |
| 46 | 2406 | SD | Control of Poaching [FR] | 300.00 | 113.10 | 113.05 | 100.0% |
| | 2406 | SD | | 0.00 | 0.00 | 0.00 | – |
| 47 | 2406 | SD | Project Tiger (020)(50) (Sh-Share) OCASPS [FR] | 281.87 | 281.87 | 281.80 | 100.0% |
| 48 | 2406 | SD | Project Tiger (021)(50) (Cent-Sh) OCASPS [FR] | 492.36 | 362.48 | 362.42 | 100.0% |
| 49 | 2406 | SD | Project Tiger (003) 789 (50) (Sh-Share) OCASPS [FR] | 160.00 | 36.53 | 36.53 | 100.0% |



| SL. No. | Major Head | Category | Schemes/Projects (State Development Schemes & Central Assistance) | Rupees in Lakhs | | | |
|--------------------------|------------|----------|--|-----------------|------------------------------|--------------------------------------|---------------------|
| | | | | Total Budget | Fund Released by Admin Deptt | State Development Scheme Expenditure | Percentage Utilised |
| 50 | 2406 | SD | Project Tiger (002) 789 (50) (Ch-Share) OCASPS [FR] | 418.00 | 46.68 | 46.68 | 100.0% |
| 51 | 2406 | SD | Project Tiger (011) 796 (50) (Sh-Share) OCASPS [FR] | 160.00 | 10.92 | 10.92 | 100.0% |
| 52 | 2406 | SD | Project Tiger (010) 796 (50) (Ch-Share) OCASPS [FR] | 419.00 | 14.11 | 14.11 | 100.0% |
| 53 | 2406 | SD | Integrated Dev. WL Habitats (022) (50) (St. Sh.) [FR] | 373.11 | 358.65 | 328.18 | 91.5% |
| 54 | 2406 | SD | Integrated Dev. WL Habitats (004) 789 (50) (ch. Sh.) | 457.00 | 187.15 | 170.06 | 90.9% |
| 55 | | SD | Integrated Dev. WL Habitats (022) (70) (St. Sh.) [FR] | 0.00 | 0.00 | 0.00 | – |
| 56 | 2406 | SD | Integrated Dev. WL Habitats (023) (50) (Cent. Sh.) | 656.64 | 572.05 | 527.47 | 92.2% |
| 57 | 2406 | SD | Integrated Dev. WL Habitats (005) 789 (50) (St. Sh.) | 123.40 | 123.40 | 112.59 | 91.2% |
| 58 | 2406 | SD | Integrated Dev. WL Habitats (012) 796 (50) (ch. Sh) | 557.00 | 140.08 | 140.04 | 100.0% |
| 59 | 2406 | SD | Integrated Dev. WL Habitats (013) 796 (013) (St. Sh.) | 120.00 | 112.92 | 111.83 | 99.0% |
| 60 | 2406 | SD | Dev. Of Medicinal & NTFP Plants [FR] (004) | 18.75 | 0.00 | 0.00 | – |
| 61 | 2406 | SD | Conservation of westlands [FR] (006) | 60.00 | 15.00 | 14.98 | 99.9% |
| 62 | 2406 | SD | Dev. Of Eco-Tourism & Nature Edn [FR] (007) | 800.00 | 200.00 | 200.00 | 100.0% |
| 63 | 2406 | SD | Elephant Conservation [FR] (008) | 1000.00 | 548.12 | 547.96 | 100.0% |
| 64 | 2406 | SD | Creation & Improvement of P & G [FR] | 1135.00 | 282.01 | 253.08 | 89.7% |
| 65 | 2406 | SD | Lloyd Botanic Garden, Darjeeling [FR] | 50.00 | 12.50 | 12.50 | 100.0% |
| 66 | 2406 | SD | Decentralised people's Nursery [FR] | 0.00 | 0.00 | 0.00 | – |
| 67 | 2406 | SD | Integrated Forest Protection (State Share) (OCASPS)[FR] | 80.00 | 52.56 | 52.44 | 99.8% |
| Total: "2406" | | | | 25326.03 | 10070.85 | 9648.96 | 95.8% |
| *2851 - Village SSI-Pltn | | | | | | | |
| 1 | | SD | M. Poll & Dev. Of Village SSI - Pltn. [FR] | 0.00 | 0.00 | 0.00 | – |
| Total: "2851" | | | | | | | |



| SL. No. | Major Head | Category | Schemes/Projects (State Development Schemes & Central Assistance) | Rupees in Lakhs | | | |
|---------------------------|------------|----------|--|-----------------|------------------------------|--------------------------------------|---------------------|
| | | | | Total Budget | Fund Released by Admin Deptt | State Development Scheme Expenditure | Percentage Utilised |
| 2204-L & B Work | | | | | | | |
| 1 | | SD | L & B Work, Other Charges | 0.00 | 0.00 | 0.00 | – |
| Total: “2204” | | | | | | | |
| 4702-Jalatirtha | | | | | | | |
| 1 | 4702 | SD | Jalatirtha | 1500.00 | 524.64 | 438.35 | 83.6% |
| | 4702 | SD | | 900.00 | 0.00 | 0.00 | – |
| | 4702 | SD | | 600.00 | 130.81 | 130.40 | 99.7% |
| Total: “4702” | | | | 3000.00 | 655.45 | 568.75 | 86.8% |
| *4202-Forest Produce | | | | | | | |
| 1 | 4202 | SD | Works Saltlake Stdm (Landscaping & Bld.) | 0.00 | 0.00 | 0.00 | – |
| *5452-Tourism Project | | | | | | | |
| 1 | 5452 | SD | Tourism Project | 0.00 | 0.00 | 0.00 | – |
| | 5452 | SD | | 0.00 | 0.00 | 0.00 | – |
| Total: “5452” | | | | 0.00 | 0.00 | 0.00 | – |
| 2551-Hill Areas: | | | | | | | |
| 1 | 2551 | SD | Protective Affn & Erosion Cont [FR] (028) (50) - 00 | 50.00 | 5.00 | 4.98 | 99.6% |
| 2 | 2551 | SD | Nature Consn. P. I. of WL (039)(50)-00 | 20.00 | 0.00 | 0.00 | – |
| 3 | 2551 | SD | Other Allied Works [FR] (045)(50)-00 | 20.00 | 0.00 | 0.00 | – |
| 4 | 2551 | SD | Improvement of Parks & Gardens (038)(31)-02-V | 10.00 | 10.00 | 10.00 | 100.0% |
| 5 | 2551 | SD | Decentralisation of peoples Nurseries (039)(31)-02-V | 10.00 | 10.00 | 10.00 | 100.0% |
| Total: “2551” | | | | 110.00 | 25.00 | 24.98 | 99.9% |
| 2415-Agrcultural Research | | | | | | | |
| 1 | 2415 | SD | Forest Research | 100.00 | 33.90 | 23.99 | 70.8% |
| 2 | 2415 | SD | Traning of Staff [FR] | 119.50 | 7.00 | 7.00 | 100.0% |
| Total: “2415” | | | | 219.50 | 40.90 | 30.99 | 75.8% |
| 4406-Capital Qutlay: | | | | | | | |
| 1 | 4406 | SD | Construction of Building (070) (001) (53) | 700.00 | 175.00 | 174.06 | 99.5% |
| 2 | 4406 | SD | Forest Conservn. & Regeneration (101) (001) (87) | 7500.00 | 4286.60 | 4211.76 | 98.3% |
| 3 | 4406 | SD | For. Convn. & Reg. (101) (003) Integrate WL Mag. (87) | 687.62 | 301.85 | 275.73 | 91.3% |



| SL. No. | Major Head | Category | Schemes/Projects (State Development Schemes & Central Assistance) | Rupees in Lakhs | | | |
|---|------------|----------|--|-----------------|------------------------------|--------------------------------------|---------------------|
| | | | | Total Budget | Fund Released by Admin Deptt | State Development Scheme Expenditure | Percentage Utilised |
| 4 | 4406 | SD | For. Convn. & Reg. (101) (004) Net Value For. Land (52) | 390.00 | 19.98 | 16.63 | 83.2% |
| 5 | 4406 | SD | For. Convn. & Reg. (101) (004) Net Value For. Land (53) | 298.00 | 74.50 | 11.18 | 15.0% |
| 6 | 4406 | SD | For. Convn. & Reg. (101) (004) Net Value For. Land (87) | 54.84 | 0.00 | 0.00 | – |
| 7 | 4406 | SD | Forest Conservn. & Regeneration (789) (002)(87) | 605.00 | 262.05 | 261.94 | 100.0% |
| 8 | 4406 | SD | Forest Conservn. & Regeneration (789) (003-DPN) (87) | 650.00 | 346.16 | 345.59 | 99.8% |
| 9 | 4406 | SD | Forest Conservn. & Regeneration (796) (002)(87) | 395.00 | 393.67 | 391.70 | 99.5% |
| | 4406 | SD | | 750.00 | 750.00 | 750.00 | 100.0% |
| Total: "4406" | | | | 12030.46 | 6609.81 | 6438.59 | 97.4% |
| Grand Total: (Forest Directorate) | | | | 42185.99 | 17444.52 | 16754.77 | 96.0% |
| Other Schemes: (Other than Forest Directorate) | | | | | | | |
| 1 | 2406 | SD | Natural History Museum | 20.00 | 0.00 | 0.00 | – |
| 2 | 2406 | SD | Improvement of Zoological Garden | 799.60 | 82.28 | 82.28 | 100.0% |
| 3 | 2406 | SD | Extention of Zoological Garden | 800.00 | 73.13 | 73.13 | 100.0% |
| Total (Excluding PCC's Budget) = | | | | 1619.60 | 155.40 | 155.41 | 100.0% |
| Grand Total: (All Schemes) | | | | 43805.59 | 17599.92 | 16910.18 | 96.1% |

Table 6.6.2 Component-Wise: State Development Schemes Expenditure during: 2020-2021

| SI | Major Head | Scheme | Normal | TSP | SCP | Total |
|----|------------|--|----------|-----|---------|----------|
| 1 | 2204 | 007.Land and Building [FR] | 13863408 | 0 | 0 | 13863408 |
| 2 | 2401 | 085.SCP for Schemes under RKVY (St-Sh.) [FR] | 0 | 0 | 2000000 | 2000000 |
| 3 | 2401 | 023.Addl.Central Assist. RKVY (St-Sh) [FR] | 2250000 | 0 | 0 | 2250000 |
| 4 | 2406 | 001.Forest Resources [FR] | 4999765 | 0 | 0 | 4999765 |
| 5 | 2406 | 005.Forest Consolidation [FR] | 1660 | 0 | 0 | 1660 |
| 6 | 2406 | 001.Development of Forest Comm [FR] | 4451162 | 0 | 0 | 4451162 |
| 7 | 2406 | 004.Buildings [FR] | 6970630 | 0 | 0 | 6970630 |
| 8 | 2406 | 010.Forest Protection [FR] | 31519676 | 0 | 0 | 31519676 |
| 9 | 2406 | 012.Working Plan [FR] | 2139500 | 0 | 0 | 2139500 |
| 10 | 2406 | 015.Management Information System [FR] | 300000 | 0 | 0 | 300000 |



| Sl | Major Head | Scheme | Normal | TSP | SCP | Total |
|----|------------|---|-----------|----------|----------|-----------|
| 11 | 2406 | 004.Integrated Forest Prot Scheme [FR] | 5244476 | 0 | 0 | 5244476 |
| 12 | 2406 | 036.National Mission for Green India (Cent Sh) [FR] | 58473800 | 35791080 | 0 | 94264880 |
| 13 | 2406 | 037.National Mission for Green India (St Sh) [FR] | 38981670 | 23861583 | 0 | 62843253 |
| 14 | 2406 | 008.Area Oriented FW & FP [FR] | 0 | 116331 | 0 | 116331 |
| 15 | 2406 | 022.Research & Seed Propagation [FR] | 3256487 | 1770704 | 0 | 5027191 |
| 16 | 4406 | 004.W.B.F.D.C. Ltd. [FR] | 75000000 | 0 | 0 | 75000000 |
| 17 | 2406 | 007.SCP for Forestry Treatment [FR] | 0 | 0 | 36813134 | 36813134 |
| 18 | 2406 | 026.Community Development [FR] | 1199917 | 0 | 0 | 1199917 |
| 19 | 2406 | 027.Other Allied Works Component [FR] | 4245559 | 0 | 0 | 4245559 |
| 20 | 2406 | 028.Monitoring and Evaluation [FR] | 2499869 | 0 | 0 | 2499869 |
| 21 | 2406 | 031.Consv. of NR & Eco.(Cent- Sh) OCSPAS | 7869621 | 0 | 0 | 7869621 |
| 22 | 2406 | 030.Consv. of NR & Eco.(State-Sh) OCSPAS | 14969319 | 0 | 0 | 14969319 |
| 23 | 2406 | 023.Integrated For & B.D. Cons (JICA) | 119700000 | 39200000 | 58750000 | 217650000 |
| 24 | 2406 | 001.Agro-Silviculture [FR] | 195000 | 0 | 0 | 195000 |
| 25 | 2406 | 019.Timber Opn by Mech Logging [FR] | 1990598 | 747318 | 0 | 2737916 |
| 26 | 2406 | 022.Eco Rehab of fringe Population [FR] | 0 | 2306487 | 0 | 2306487 |
| 27 | 2406 | 024.Intensification of Management [FR] | 4914002 | 0 | 0 | 4914002 |
| 28 | 2406 | 003.Amenities to For Staff & Labourers [FR] | 804381 | 0 | 0 | 804381 |
| 29 | 2406 | 004.Publicity-cum-Extension [FR] | 34714483 | 0 | 0 | 34714483 |
| 30 | 2406 | 027.Protection & Improvement of WL [FR] | 43356603 | 0 | 0 | 43356603 |
| 31 | 2406 | 007.Control of Poaching [FR] | 11008927 | 0 | 0 | 11008927 |
| 32 | 2406 | 011.Project Tiger (Sh-Share) OCASPS [FR] | 28130241 | 1092299 | 3953374 | 33175914 |
| 33 | 2406 | 010.Project Tiger (Cent-Sh) OCASPS [FR] | 36242293 | 1410828 | 4367670 | 42020791 |
| 34 | 2406 | 013.I.Dev WL Habitats (St-Sh) OCASPS [FR] | 32386295 | 11183132 | 11260792 | 54830219 |
| 35 | 2406 | 012.I.Dev WL Habitats (Ch-Sh) OCASPS [FR] | 52856935 | 14004208 | 17034699 | 83895842 |
| 36 | 2406 | 006.Conservation of Wetlands [FR] | 0 | 1497887 | 0 | 1497887 |
| 37 | 2406 | 007.Dev of Eco-Tourism & Nature Edn [FR] | 0 | 20000000 | 0 | 20000000 |
| 38 | 2406 | 008.Elephant Conservation [FR] | 0 | 54680119 | 0 | 54680119 |
| 39 | 2406 | 007.Creation & Improvement of P & G [FR] | 25308021 | 0 | 0 | 25308021 |
| 40 | 2406 | 002.Urban Forestry [FR] | 10000 | 0 | 0 | 10000 |
| 41 | 2406 | 004.Lloyd Botanic Garden,Darjeeling [FR] | 1241756 | 0 | 0 | 1241756 |
| 42 | Campa | 001.Compensatory Afforestation [FR] | 3197768 | 0 | 0 | 3197768 |
| 43 | Campa | 003.Penal Compensatory Afforestation [FR] | 646558 | 0 | 0 | 646558 |
| 44 | Campa | 004.Net Present Value of Forest Land [FR] | 11658997 | 0 | 0 | 11658997 |



| SI | Major Head | Scheme | Normal | TSP | SCP | Total |
|----|------------|---|-------------------|------------------|------------------|-------------------|
| 45 | Campa | 005.Protected Areas (National Parks WL Sanc) [FR] | 2850805 | 0 | 0 | 2850805 |
| 46 | Campa | 001.Compensatory Afforestation [FR] | 14160873 | 0 | 0 | 14160873 |
| 47 | Campa | 004.NPV of Forest Land [FR] | 336012 | 0 | 0 | 336012 |
| 48 | Campa | 006.Others [FR] | 920377 | 0 | 0 | 920377 |
| 49 | 2415 | 001.Forestry Research [FR] | 2364722 | 0 | 0 | 2364722 |
| 50 | 2415 | 002.Training of Staff [FR] | 700000 | 0 | 0 | 700000 |
| 51 | 2551 | 028.Prot Afforstn & Erosion Control [FR] | 497870 | 0 | 0 | 497870 |
| 52 | 2551 | 038.Improvement of Parks & Gardens [FR] | 1000000 | 0 | 0 | 1000000 |
| 53 | 2551 | 039.Decentralised Peoples Nurseries [FR] | 1000000 | 0 | 0 | 1000000 |
| 54 | 4406 | 001.Construction of Building [FR] | 17406013 | 0 | 0 | 17406013 |
| 55 | 4406 | 002.Forest Conservation and Regeneration [FR] | 420783961 | 39169508 | 26163097 | 486116566 |
| 56 | 4406 | 003.Forest Cons and Regeneration - DPN [FR] | 0 | 0 | 34495475 | 34495475 |
| 57 | 4406 | 003.Intergrated WL Management Plan [FR] | 29731822 | 0 | 0 | 29731822 |
| 58 | Campa | 004.NPV of Forest Land [FR] | 2780594 | 0 | 0 | 2780594 |
| 59 | 4702 | 047.Scheme under Jalatirtha [FR] | 43835318 | 13039574 | 0 | 56874892 |
| 60 | 5452 | 001.Tourism Project | 0 | 0 | 14359193 | 14359193 |
| | | Total: | 1224967744 | 259871058 | 209197434 | 1694036236 |

Table 6.6.3: Schemewise Fund Released Vs Administrative Expenditure 2020-2021 Forest Directorate

| SI | Major Head | Category | Scheme | Total Budget | Fund Released by Admin Deptt | Actual Expenditure | Percentage Utilised |
|----|------------|----------|---|--------------|------------------------------|--------------------|---------------------|
| 1 | 2402 | AE | Strengthening Soil Con Orgn [FR] | 0.00 | 0.00 | 68.27 | – |
| 2 | 2402 | AE | Protective Affn Erosion Control [FR] | 0.00 | 0.00 | 403.12 | – |
| 3 | 2402 | AE | Soil Cons in RVP - Kangsabati [FR] | 0.00 | 0.00 | 230.71 | – |
| 4 | 2402 | AE | Soil Cons in RVP - Teesta [FR] | 0.00 | 0.00 | 103.76 | – |
| 5 | 2402 | AE | Soil Cons in Himalayan Region [FR] | 0.00 | 0.00 | 42.78 | – |
| 6 | 2402 | AE | Flood Cont in FPR - Ganga Basin [FR] | 0.00 | 0.00 | 0.73 | – |
| 7 | 2406 | AE | Direction & Administration [FR] | 0.00 | 0.00 | 26762.17 | – |
| 8 | 2406 | AE | General Direction & Administration [FR] | 0.00 | 0.00 | 388.68 | – |
| 9 | 2406 | AE | Forest Resources [FR] | 0.00 | 0.00 | 3.80 | – |
| 10 | 2406 | AE | Forest Consolidation [FR] | 0.00 | 0.00 | 3.79 | – |
| 11 | 2406 | AE | Surveys [FR] | 0.00 | 0.00 | 2.16 | – |
| 12 | 2406 | AE | Buildings [FR] | 0.00 | 0.00 | 255.38 | – |



| Sl | Major Head | Category | Scheme | Total Budget | Fund Released by Admin Deptt | Actual Expenditure | Percentage Utilised |
|----|------------|----------|---------------------------------------|--------------|------------------------------|--------------------|---------------------|
| 13 | 2406 | AE | Communication [FR] | 0.00 | 0.00 | 68.75 | – |
| 14 | 2406 | AE | WL Wing (i) Conservancy & Regn [FR] | 0.00 | 0.00 | 456.08 | – |
| 15 | 2406 | AE | (ii).Working Plan [FR] | 0.00 | 0.00 | 15.72 | – |
| 16 | 2406 | AE | (iii).Forest Protection [FR] | 0.00 | 0.00 | 866.98 | – |
| 17 | 2406 | AE | Management Information System [FR] | 0.00 | 0.00 | 3.80 | – |
| 18 | 2406 | AE | Plantation of Quick Growing Spp [FR] | 0.00 | 0.00 | 2.67 | – |
| 19 | 2406 | AE | Farm Forestry-cum-Fuelwood Pltn [FR] | 0.00 | 0.00 | 2.70 | – |
| 20 | 2406 | AE | Mixed Pltn etc.- Rural FW Pltn [FR] | 0.00 | 0.00 | 2.42 | – |
| 21 | 2406 | AE | West Bengal Forestry Project [FR] | 0.00 | 0.00 | 498.61 | – |
| 22 | 2406 | AE | Area Oriented FW & Fodder Proj [FR] | 0.00 | 0.00 | 2.96 | – |
| 23 | 2406 | AE | Social Forestry Project [FR] | 0.00 | 0.00 | 1894.66 | – |
| 24 | 2406 | AE | Timber Operation by Govt Agency [FR] | 0.00 | 0.00 | 749.50 | – |
| 25 | 2406 | AE | Minor Forest Produce [FR] | 0.00 | 0.00 | 11.72 | – |
| 26 | 2406 | AE | MFP: Silvo-Pisciculture [FR] | 0.00 | 0.00 | 7.22 | – |
| 27 | 2406 | AE | Timber Operation by Mech Logging [FR] | 0.00 | 0.00 | 32.53 | – |
| 28 | 2406 | AE | MFP: Agro-Silviculture [FR] | 0.00 | 0.00 | 8.19 | – |
| 29 | 2406 | AE | WL Unit - Prot & Improve of WL [FR] | 0.00 | 0.00 | 1963.35 | – |
| 30 | 2406 | AE | Nature Cons-Protn & Imp of WL [FR] | 0.00 | 0.00 | 6.48 | – |
| 31 | 2406 | AE | Sundarbans Tiger Reserve [FR] | 0.00 | 0.00 | 229.74 | – |
| 32 | 2406 | AE | Buxa Tiger Reserve [FR] | 0.00 | 0.00 | 8.51 | – |
| 33 | 2406 | AE | Jaldapara Wildlife Sanctuary [FR] | 0.00 | 0.00 | 0.52 | – |
| 34 | 2406 | AE | Control of Poaching [FR] | 0.00 | 0.00 | 0.44 | – |
| 35 | 2406 | AE | Neora Valley National Park [FR] | 0.00 | 0.00 | 0.65 | – |
| 36 | 2406 | AE | Mahananda Wildlife Sanctuary [FR] | 0.00 | 0.00 | 0.69 | – |
| 37 | 2406 | AE | Senchal Wildlife Sanctuary [FR] | 0.00 | 0.00 | 0.70 | – |
| 38 | 2406 | AE | Garumara Wildlife Sanctuary [FR] | 0.00 | 0.00 | 0.66 | – |



| Sl | Major Head | Category | Scheme | Total Budget | Fund Released by Admin Deptt | Actual Expenditure | Percentage Utilised |
|----|------------|----------|---------------------------------------|--------------|------------------------------|--------------------|---------------------|
| 39 | 2406 | AE | Singhalila National Park [FR] | 0.00 | 0.00 | 0.80 | – |
| 40 | 2406 | AE | Parks & Gardens Wing [FR] | 0.00 | 0.00 | 2137.17 | – |
| 41 | 2406 | AE | Lloyd Botanic Garden, Darjeeling [FR] | 0.00 | 0.00 | 64.25 | – |
| 42 | 2406 | AE | Creation & Improvemt of P & G [FR] | 0.00 | 0.00 | 6.93 | – |
| 43 | 2406 | AE | Urban Forestry [FR] | 0.00 | 0.00 | 5.11 | – |
| 44 | 2406 | AE | Greening of Rural Areas [FR] | 0.00 | 0.00 | 1.92 | – |
| 45 | 2406 | AE | Reward for Cont of Wild Animals [FR] | 0.00 | 0.00 | 49.99 | – |
| 46 | 2406 | AE | Compensation for WL Depredation [FR] | 0.00 | 0.00 | 1063.00 | – |
| 47 | 2406 | AE | West Bengal Eco-Tourism Board [FR] | 0.00 | 0.00 | 64.00 | – |
| 48 | 2415 | AE | General Direction Trg of Staff [FR] | 0.00 | 0.00 | 4.25 | – |
| 49 | 2415 | AE | Forestry Research [FR] | 0.00 | 0.00 | 21.24 | – |
| 50 | 2551 | AE | Econ Rehab of Fringe Population [FR] | 0.00 | 0.00 | 0.22 | – |
| 51 | 2551 | AE | Prot Afforstn & Erosion Control [FR] | 0.00 | 0.00 | 0.47 | – |
| 52 | 2551 | AE | West Bengal Forestry Project [FR] | 0.00 | 0.00 | 9.42 | – |
| 53 | 2551 | AE | Other Allied Work Component | 0.00 | 0.00 | 1.12 | – |
| 54 | 2551 | AE | Nature Cons-Protn & Imp of WL [FR] | 0.00 | 0.00 | 0.19 | – |
| | | | Total | 0.00 | 0.00 | 38531.66 | – |

Table – 6.6.4: Actual Expenditure under Major Heads for last 10 years (2011-2012 to 2020-2021)

[in ₹]

| 2011-12 | | | | | | | |
|--------------------|-------------------|------------------|------------------|---------------|---|---|-------------------|
| (N.G.)-> | 2507417000 | 948857000 | 120341200 | 8967354 | – | – | 3585582554 |
| 2402 | 78567570 | 11999600 | – | 200000 | – | – | 90767170 |
| 2406 | 2295063398 | 473912210 | 127316283 | – | – | – | 2896291891 |
| 2551 | 1028884 | 4598300 | – | – | – | – | 5627184 |
| 2415 | 1987342 | 5398681 | – | – | – | – | 7386023 |
| 4406 | – | 158533080 | – | – | – | – | 158533080 |
| 2401 | – | *59781433 | *52569772 | – | – | – | 112351205 |
| 4216 | – | *34758977 | – | – | – | – | 34758977 |
| TOTAL: | 2376647194 | 748982281 | 179886055 | 200000 | – | – | 3305715530 |



| Major Head | Non Plan (LOC & TRG.) | State Plan (Annual Plan) | Centrally Sponsored (New Scheme) | Non Plan Development | State Plan (Committed) | Centrally Sponsored Scheme Committed | Total |
|----------------|-----------------------|--------------------------|----------------------------------|----------------------|------------------------|--------------------------------------|-------------------|
| 2012-13 | | | | – | – | – | |
| 2402 | 5,40,11,689 | 74,74,930 | – | – | – | – | 61486619 |
| 2406 | 2,46,64,07,958 | 66,00,24,683 | 9,15,67,742 | – | – | – | 3218000383 |
| 2551 | 9,42,719 | 48,91,496 | – | – | – | – | 5834215 |
| 2415 | 21,47,322 | 70,00,000 | – | – | – | – | 9147322 |
| 4406 | – | 2,83,15,455 | – | – | – | – | 28315455 |
| 2401 | – | 6,18,31,983 | – | – | – | – | 61831983 |
| 4216 | – | – | – | – | – | – | --- |
| TOTAL | 2,52,35,09,688 | 76,95,38,547 | 9,15,67,742 | – | – | – | 3384615977 |

(₹ in Lakhs)

| Major Heads 2013-2014 | Non- Plan (LOC & Treasury) | State Plan (AP) (LOC & Treasury) | C.S.S & C.S. | Total |
|-----------------------|----------------------------|----------------------------------|----------------|-----------------|
| 2401 | 0.00 | 719.00 | 0.00 | 719.00 |
| 2402 | 709.95 | 114.80 | 0.00 | 824.75 |
| 2406 | 25637.15 | 12951.26 | 1221.30 | 39809.71 |
| 2415 | 49.02 | 70.02 | 0.00 | 119.04 |
| 2551 | 11.64 | 107.53 | 0.00 | 119.17 |
| 4406 | 0.00 | 965.26 | 0.00 | 965.26 |
| GRAND TOTAL | 26407.76 | 13359.48 | 1221.30 | 42556.93 |

(₹ in Lakhs)

| Major Heads 2014-2015 | Non- Plan (LOC & Treasury) | State Plan (AP) (LOC & Treasury) | C.S.S & C.S. | Total |
|-----------------------|----------------------------|----------------------------------|---------------|------------------|
| 2401 | 0.00 | 1507.73 | 0.00 | 1507.73 |
| 2402 | 728.21 | 66.58 | 0.00 | 794.79 |
| 2406 | 26,176.24 | 9,818.30 | 116.91 | 36,111.45 |
| 2415 | 37.88 | 50.00 | 0.00 | 87.88 |
| 2551 | 12.63 | 29.98 | 0.00 | 42.61 |
| 4216 | 0.00 | 1247.08 | 0.00 | 1247.08 |
| 2049 | 9.11 | 0.00 | 0.00 | 9.11 |
| 4406 | 0.00 | 1260.33 | 0.00 | 1260.33 |
| GRAND TOTAL | 26,964.07 | 13,980.00 | 116.91 | 41,060.98 |



(₹ In Lakhs.)

| Major Head (2015-2016) | Non Plan | State Plan (Annual Plan) | Total |
|---------------------------------|-----------------|-----------------------------|-----------------|
| (Total: Budget Estimate) | 32836.27 | 25994.35 | 58830.62 |
| 2401 | 0.00 | 1026.00 | 1026.00 |
| 2402 | 708.00 | 2.49 | 710.49 |
| 2406 | 26236.92 | 17607.73 | 43844.65 |
| 2415 | 28.82 | 55.52 | 84.34 |
| 2505 | 0.00 | 118.00 | 118.00 |
| 2551 | 13.63 | 97.85 | 111.48 |
| 4216 | 0.00 | 632.82 | 632.82 |
| 4406 | 0.00 | 1037.75 | 1037.75 |
| 4702 | 0.00 | 1000.96 | 1000.96 |
| GRAND TOTAL | 26987.37 | 21579.12 | 48566.49 |

(₹ In Lakhs.)

| Major Head (2016-2017) | Non Plan | State Plan (Annual Plan) | Total |
|---------------------------------|-----------------|-----------------------------|-----------------|
| (Total: Budget Estimate) | 35466.62 | 32913.60 | 68380.22 |
| 2401 | 0.00 | 846.00 | 846.00 |
| 2402 | 835.68 | 4.92 | 840.60 |
| 2406 | 30621.33 | 18034.57 | 48655.90 |
| 2415 | 93.91 | 96.76 | 190.67 |
| 2505 | 0.00 | 278.20 | 278.20 |
| 2551 | 16.29 | 92.79 | 109.08 |
| 2851 | 0.00 | 340.00 | 340.00 |
| 4406 | 0.00 | 946.02 | 946.02 |
| 4702 | 0.00 | 1420.68 | 1420.68 |
| GRAND TOTAL | 31567.21 | 22059.94 | 53627.15 |

(₹ In Lakhs.)

| Major Head (2017-2018) | Non Plan | State Plan (Annual Plan) | Total |
|-------------------------------|-----------------|-----------------------------|-----------------|
| (Total: Fund Released) | 377,06.25 | 326,34.04 | 70340.29 |
| 2401 | 0.00 | 1395.00 | 1395.00 |
| 2402 | 801.71 | 0.00 | 801.71 |
| 2406 | 32395.77 | 18522.68 | 50918.45 |
| 2415 | 45.28 | 99.00 | 144.28 |
| 4202 | 0.00 | 464.54 | 464.54 |
| 2551 | 16.69 | 56.18 | 72.87 |
| 5452 | 0.00 | 219.05 | 219.05 |
| 4406 | 0.00 | 2500.00 | 2500.00 |
| 4702 | 0.00 | 1315.00 | 1315.00 |
| 2204 | 0.00 | 168.66 | 168.66 |
| GRAND TOTAL | 33259.45 | 24740.11 | 57999.56 |



(₹ In Lakhs.)

| Major Head (2018-2019) | Administrative Expenditure | State Development Expenditure | T o t a l: Expenditure Major Head |
|-----------------------------------|-------------------------------|----------------------------------|--------------------------------------|
| Total: Fund Released:-> | 32384.13 | 30072.02 | 62456.15 |
| 2401 | 0.00 | 891.62 | 891.62 |
| 2402 | 684.57 | 0.00 | 684.57 |
| 2406 | 31786.97 | 24140.81 | 55927.78 |
| 2415 | 38.18 | 210.00 | 248.18 |
| 4202 | 38.57 | 0.00 | 38.57 |
| 2551 | 12.47 | 81.00 | 93.47 |
| 5452 | 0.00 | 599.31 | 599.31 |
| 4406 | 81.86 | 396.43 | 478.29 |
| 4702 | 0.00 | 1520.24 | 1520.24 |
| GRAND TOTAL:: | 32642.62 | 27839.41 | 60482.03 |

(₹ In Lakhs.)

| Major Head (2019-2020) | Administrative Expenditure | State Development Expenditure | T o t a l: Expenditure Major Head |
|-----------------------------|-------------------------------|----------------------------------|--------------------------------------|
| Total: Fund Released | 40361.66 | 25891.63 | 66253.29 |
| 2204 | 0 | 89.23 | 89.23 |
| 2401 | 0 | 629.00 | 629.00 |
| 2402 | 760.87 | 0 | 760.87 |
| 2406 | 33682.39 | 13874.47 | 47556.86 |
| 2415 | 24.43 | 86.42 | 110.85 |
| 2551 | 10.36 | 36.41 | 46.77 |
| 4406 | 31.28 | 7273.80 | 7305.08 |
| 4702 | 0 | 2076.17 | 2076.17 |
| 5452 | 0 | 39.42 | 39.42 |
| GRAND TOTAL | 34509.32 | 24104.92 | 58614.25 |

(₹ In Lakhs.)

| Major Head (2020-2021) | Administrative Expenditure (AE) | State Development Schemes Expenditure (SD) | Total |
|---------------------------|------------------------------------|---|-------------------|
| 2204 | 0 | 13863408 | 13863408 |
| 2401 | 0 | 4250000 | 4250000 |
| 2402 | 84937615 | 0 | 84937615 |
| 2406 | 3764537843 | 919824291 | 4684362134 |
| 2415 | 2549294 | 3064722 | 5614016 |
| 2551 | 1141638 | 2497870 | 3639508 |
| 4406 | 0 | 642749876 | 642749876 |
| 4702 | 0 | 56874892 | 56874892 |
| 5452 | 0 | 14359193 | 14359193 |
| Campa | 0 | 36551984 | 36551984 |
| Total | 3853166390 | 1694036236 | 5547202626 |





West Bengal is one of the few states in country where per capita forest is the lowest (0.01 ha.) and population density around fragmented forest is the highest. Evidently there is tremendous pressure on forests. Coupled with socio-economic issues of poverty, underemployment and unemployment in forest fringe areas, major threats to forests come from illicit collection of firewood, fodder, and small timber from the forest by such villagers to sustain their livelihood. This issues has, however, been tackled by and large over a major part of forested tract in the state by formation of Joint Forest Management Committees and through the process of consolidation of Joint Forest Management. But in areas where there is a problem of timber and poaching of wildlife in field, protection is provided through intensive patrolling of the areas by the field personnel. Vigilance by departmental protective staff has been intensified

in such areas by forming mobile squads and assisted by specially constituted battalion of State Armed Police with 200 personnel. Action has been taken to stop illegal activities by wood-based industries operating in regions vulnerable to operation of gangsters. A post of Inspector General of police, Forest Protection has been created in the Department of Forests to have the required liaison with the Police Administration to ensure their support at district and state level to combat organized gangsters in illicit operation to timber, control of poaching, encroachment etc.

An extensive network of wireless system(R.T.) has been built up connecting Beats/Ranges with the Divisional Headquarters in order to ensure required reinforcement at times of emergency to combat organized plunder of timber and poaching of wildlife.



7.1 DATA ON FOREST OFFENCE FOR F.Y. 2020-21

During F.Y. 2020-21, total number of offence cases registered was 10748, out of which COR was 6564, UDOR was 3943 and POR was 241 and 7110 no. of trees were reported by the Divisions as illicitly felled.

7.1.1 No of POR Cases for F.Y. 2020-21

| Division | Illicit felling | Unauthorised grazing | Wild life offence | Offence in Non-Forest Area | Forest Conservation Act | Total POR Cases Registered |
|------------------|-----------------|----------------------|-------------------|----------------------------|-------------------------|----------------------------|
| Darjeeling | 0 | 0 | 0 | 0 | 0 | 0 |
| Kurseong | 18 | 0 | 11 | 0 | 0 | 29 |
| Kalimpong | 14 | 0 | 0 | 0 | 0 | 14 |
| Siliguri SF | 3 | 0 | 0 | 0 | 0 | 3 |
| Darjeeling WL | 8 | 0 | 0 | 0 | 0 | 8 |
| Baikunthapur | 29 | 0 | 5 | 0 | 0 | 34 |
| Jalpaiguri | 23 | 0 | 3 | 0 | 0 | 26 |
| BTR East | 5 | 0 | 3 | 0 | 0 | 8 |
| BTR West | 31 | 0 | 2 | 0 | 0 | 33 |
| CoochBehar* | 2 | 0 | 4 | 1 | 0 | 7 |
| Jaldapara WL | 8 | 0 | 4 | 0 | 0 | 12 |
| Gorumara WL | 0 | 0 | 18 | 0 | 0 | 18 |
| Raiganj | 0 | 0 | 3 | 0 | 0 | 3 |
| Malda | 0 | 0 | 2 | 0 | 0 | 2 |
| Bankura North | 1 | 0 | 0 | 0 | 0 | 1 |
| Bankura South | 0 | 0 | 1 | 0 | 0 | 1 |
| Panchet | 1 | 0 | 0 | 0 | 0 | 1 |
| Kangsabati North | 0 | 0 | 1 | 0 | 0 | 1 |
| Kangsabati South | 0 | 0 | 0 | 0 | 0 | 0 |
| Purulia | 0 | 0 | 0 | 0 | 0 | 0 |
| Burdwan | 1 | 0 | 3 | 0 | 0 | 4 |
| Durgapur | 0 | 0 | 4 | 0 | 0 | 4 |
| Midnapur | 0 | 0 | 0 | 0 | 0 | 0 |
| Jhargram | 0 | 0 | 0 | 0 | 0 | 0 |
| Rupnarayan | 0 | 0 | 0 | 0 | 0 | 0 |
| Kharagpur | 0 | 0 | 1 | 0 | 6 | 7 |
| Purba Midnapur | 1 | 0 | 0 | 0 | 0 | 1 |
| Birbhum | 0 | 0 | 0 | 0 | 0 | 0 |
| Nadia Msd | 0 | 0 | 4 | 0 | 0 | 4 |
| 24 Parganas(S) | 0 | 1 | 5 | 0 | 0 | 6 |
| Howrah | 0 | 0 | 2 | 0 | 0 | 2 |
| STR | 0 | 0 | 0 | 0 | 0 | 0 |
| Wildlife HQ | 0 | 0 | 4 | 0 | 0 | 4 |
| 24 Parganas (N) | 0 | 0 | 8 | 0 | 0 | 8 |
| TOTAL | 145 | 1 | 88 | 1 | 6 | 241 |

* Cooch behar – No. of offence cases for Violation of T.P. Rule - 3



7.1.2 No of COR Cases for F.Y. 2020-21

| Division | Illicit felling | Unauthorised grazing | Wild life offence | Offence in Non-Forest Area | F.C.A | Total COR Cases Registered |
|------------------|-----------------|----------------------|-------------------|----------------------------|------------|----------------------------|
| Darjeeling | 21 | 1 | 0 | 0 | 0 | 22 |
| Kurseong | 18 | 0 | 0 | 0 | 0 | 18 |
| Kalimpong | 15 | 0 | 0 | 0 | 0 | 15 |
| Siliguri SF | 49 | 24 | 0 | 0 | 0 | 73 |
| Darjeeling WL | 0 | 188 | 199 | 0 | 0 | 387 |
| Baikunthapur | 141 | 1 | 0 | 0 | 0 | 142 |
| Jalpaiguri | 232 | 0 | 0 | 0 | 0 | 232 |
| BTR East | 0 | 0 | 0 | 175 | 0 | 175 |
| BTR West | 0 | 26 | 0 | 25 | 32 | 83 |
| Cooch Behar* | 52 | 0 | 0 | 9 | 0 | 61 |
| Jaldapara WL | 0 | 50 | 0 | 173 | 0 | 223 |
| Gorumara WL | 0 | 40 | 0 | 0 | 0 | 40 |
| Raiganj | 0 | 4 | 0 | 10 | 2 | 16 |
| Malda | 0 | 20 | 0 | 4 | 0 | 24 |
| Bankura North | 127 | 0 | 0 | 37 | 3 | 167 |
| Bankura South | 328 | 0 | 0 | 0 | 0 | 328 |
| Panchet | 49 | 0 | 0 | 13 | 0 | 62 |
| Kangsabati North | 109 | 77 | 0 | 0 | 0 | 186 |
| Kangsabati South | 73 | 10 | 0 | 32 | 0 | 115 |
| Purulia | 173 | 7 | 0 | 35 | 1 | 216 |
| Burdwan | 191 | 0 | 0 | 102 | 0 | 293 |
| Durgapur | 0 | 0 | 0 | 55 | 0 | 55 |
| Midnapur | 354 | 35 | 1 | 5 | 96 | 491 |
| Jhargram | 83 | 0 | 0 | 0 | 0 | 83 |
| Rupnarayan | 176 | 1 | 0 | 5 | 0 | 182 |
| Kharagpur | 0 | 0 | 0 | 68 | 0 | 68 |
| Purba Midnapur | 24 | 0 | 0 | 0 | 0 | 24 |
| Birbhum | 55 | 2 | 0 | 24 | 0 | 81 |
| Nadia Msd | 5 | 0 | 0 | 95 | 0 | 100 |
| 24 Parganas(S) | 0 | 311 | 0 | 6 | 0 | 317 |
| Howrah | 0 | 0 | 0 | 3 | 0 | 3 |
| STR | 0 | 2273 | 0 | 0 | 0 | 2273 |
| Wildlife HQ | 0 | 0 | 5 | 0 | 0 | 5 |
| 24 Parganas (N) | 0 | 0 | 1 | 3 | 0 | 4 |
| Total | 2275 | 3070 | 206 | 879 | 134 | 6564 |

* Cooch behar – No. of offence cases for Violation of T.P. Rule - 22



7.1.3 No of UDOR Cases for F.Y. 2020-21

| Division | Illicit felling | Unauthorised grazing | Wild life offence | Offence in Non-Forest Area | F.C.A | Total UDOR Cases Registered |
|------------------|-----------------|----------------------|-------------------|----------------------------|----------|-----------------------------|
| Darjeeling | 2 | 0 | 0 | 0 | 0 | 2 |
| Kurseong | 103 | 0 | 0 | 0 | 0 | 103 |
| Kalimpong | 128 | 0 | 0 | 0 | 0 | 128 |
| Siliguri SF | 0 | 0 | 0 | 0 | 0 | 0 |
| Darjeeling WL | 201 | 0 | 0 | 0 | 0 | 201 |
| Baikunthapur | 181 | 0 | 0 | 0 | 0 | 181 |
| Jalpaiguri | 858 | 0 | 0 | 0 | 0 | 858 |
| BTR East | 746 | 0 | 0 | 0 | 0 | 746 |
| BTR West | 834 | 0 | 0 | 0 | 0 | 834 |
| Coochbehar | 43 | 0 | 0 | 83 | 0 | 126 |
| Jaldapara WL | 305 | 0 | 0 | 0 | 0 | 305 |
| Gorumara WL | 13 | 0 | 0 | 0 | 0 | 13 |
| Raiganj | 3 | 0 | 4 | 0 | 0 | 7 |
| Malda | 1 | 0 | 1 | 6 | 0 | 8 |
| Bankura North | 10 | 0 | 1 | 0 | 0 | 11 |
| Bankura South | 52 | 0 | 0 | 0 | 0 | 52 |
| Panchet | 5 | 0 | 0 | 0 | 0 | 5 |
| Kangsabati North | 10 | 0 | 0 | 0 | 0 | 10 |
| Kangsabati South | 16 | 0 | 0 | 0 | 0 | 16 |
| Purulia | 19 | 0 | 0 | 0 | 0 | 19 |
| Burdwan | 12 | 0 | 2 | 0 | 0 | 14 |
| Durgapur | 8 | 0 | 0 | 0 | 0 | 8 |
| Midnapur | 108 | 0 | 1 | 0 | 0 | 109 |
| Jhargram | 20 | 0 | 0 | 0 | 0 | 20 |
| Rupnarayan | 15 | 0 | 0 | 0 | 0 | 15 |
| Kharagpur | 23 | 0 | 0 | 0 | 0 | 23 |
| Purba Midnapur | 6 | 0 | 0 | 0 | 0 | 6 |
| Birbhum | 22 | 0 | 1 | 0 | 0 | 23 |
| Nadia Msd | 26 | 0 | 16 | 7 | 0 | 49 |
| 24 Parganas(S) | 10 | 0 | 5 | 0 | 0 | 15 |
| Howrah | 0 | 0 | 0 | 0 | 0 | 0 |
| STR | 0 | 4 | 0 | 0 | 0 | 4 |
| Wildlife HQ. | 0 | 0 | 32 | 0 | 0 | 32 |
| 24 Parganas (N) | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 3780 | 4 | 63 | 96 | 0 | 3943 |



7.1.4 Status of offence case registered and number of tree felled illicitly during F.Y. 2020-21

| Division | Total POR Cases Registered | Total COR Cases Registered | Total UDOR Cases Registered | Total Number of Cases Registered | No of trees illicitly felled |
|------------------|----------------------------|----------------------------|-----------------------------|----------------------------------|------------------------------|
| Darjeeling | 0 | 22 | 2 | 24 | 0 |
| Kurseong | 29 | 18 | 103 | 150 | 103 |
| Kalimpong | 14 | 15 | 128 | 157 | 192 |
| Siliguri SF | 3 | 73 | 0 | 76 | 0 |
| Darjeeling WL | 8 | 387 | 201 | 596 | 105 |
| Baikunthapur | 34 | 142 | 181 | 357 | 137 |
| Jalpaiguri | 26 | 232 | 858 | 1116 | 1775 |
| BTR East | 8 | 175 | 746 | 929 | 1085 |
| BTR West | 33 | 83 | 834 | 950 | 1131 |
| Coochbehar | 7 | 61 | 126 | 194 | 24 |
| Jaldapara WL | 12 | 223 | 305 | 540 | 375 |
| Gorumara WL | 18 | 40 | 13 | 71 | 26 |
| Raiganj | 3 | 16 | 7 | 26 | 5 |
| Malda | 2 | 24 | 8 | 34 | 1 |
| Bankura North | 1 | 167 | 11 | 179 | 96 |
| Bankura South | 1 | 328 | 52 | 381 | 1390 |
| Panchet | 1 | 62 | 5 | 68 | 55 |
| Kangsabati North | 1 | 186 | 10 | 197 | 0 |
| Kangsabati South | 0 | 115 | 16 | 131 | 0 |
| Purulia | 0 | 216 | 19 | 235 | 113 |
| Burdwan | 4 | 293 | 14 | 311 | 12 |
| Durgapur | 4 | 55 | 8 | 67 | 0 |
| Midnapur | 0 | 491 | 109 | 600 | 67 |
| Jhargram | 0 | 83 | 20 | 103 | 0 |
| Rupnarayan | 0 | 182 | 15 | 197 | 39 |
| Kharagpur | 7 | 68 | 23 | 98 | 0 |
| Purba Midnapur | 1 | 24 | 6 | 31 | 0 |
| Birbhum | 0 | 81 | 23 | 104 | 79 |
| Nadia Msd | 4 | 100 | 49 | 153 | 151 |
| 24 Parganas(S) | 6 | 317 | 15 | 338 | 10 |
| Howrah | 2 | 3 | 0 | 5 | 139 |
| STR | 0 | 2273 | 4 | 2277 | 0 |
| Wildlife HQ. | 4 | 5 | 32 | 41 | 0 |
| 24 Parganas (N) | 8 | 4 | 0 | 12 | 0 |
| Total | 241 | 6564 | 3943 | 10748 | 7110 |



7.1.5 Details of Timber Seized and Stolen from Forest Area and its Value During F.Y. 2020-21

The quantity of timber seized from forest area during F.Y. 2020-21 is 3436.8064 m³ valuing approximately ₹ 3,70,75,545.00 and quantity of timber stolen from forest area is 1228.9614 m³ valuing approximately ₹ 3,22,29,514.00.

| Divisions | SEIZURE OF TIMBER | | STOLEN TIMBER | |
|------------------|--|-----------------------------|--|-----------------------------|
| | Volume of Timber (in m ³) | Value of Timber (in INR) | Volume of Timber (in m ³) | Value of Timber (in INR) |
| Darjeeling | 0.792 | 5544 | 0 | 0.00 |
| Kurseong | 191.821 | 3836420.00 | 199.601 | 3992020.00 |
| Kalimpong | 79.3046 | 4458723 | 59.18 | 1917900 |
| Darjeeling WL | 145.21 | 2080363.5 | 0 | 0.00 |
| Baikunthapur | 219.815 | 0.00 | 6.910 | 0.00 |
| Jalpaiguri | 718.502 | 21540000.00 | 709.816 | 21294480.00 |
| BTR East | 730.929 | 0.00 | 0 | 0.00 |
| BTR West | 649.47 | 3672696.00 | 189.71 | 4827765 |
| Cooch Behar | 21.722 | 0.00 | 0 | 0.00 |
| Jaldapara WL | 495.771 | 0.00 | 0 | 0.00 |
| Gorumara WL | 4.3 | 35000.00 | 0 | 0.00 |
| Raiganj | 0.608 | 31152.00 | 0 | 0.00 |
| Malda | 0.024 | 1000.00 | 0 | 0.00 |
| Bankura North | 11.2695 | 209292 | 0 | 0.00 |
| Bankura South | 0 | 0.00 | 50.712 | 167349.00 |
| Panchet | 3.72 | 49560 | 0 | 0 |
| Kangsabati North | 3.345 | 40140 | 3 | 30000 |
| Kangsabati South | 21.081 | 0 | 0 | 0.00 |
| Purulia* | 22.682 | 183898.00 | 0 | 0 |
| Burdwan | 9.229 | 0.00 | 0 | 0 |
| Durgapur | 0 | 0.00 | 0 | 0.00 |
| Midnapur | 32.573 | 500000 | 0 | 0.00 |
| Jhargram | 34.578 | 169432.00 | 0 | 0.00 |
| Rupnarayan | 14.347 | 122091.00 | 0 | 0.00 |
| Kharagpur | 0 | 0 | 0 | 0.00 |
| Purba Midnapur | 0 | 0.00 | 0 | 0.00 |
| Birbhum | 12.997 | 140233.50 | 0 | 0.00 |
| Nadia Msd | 12.7163 | 0 | 10.0324 | 0 |
| 24 Parganas(S) | 0.00 | 0 | 0 | 0.00 |
| Howrah | 0 | 0 | 0 | 0 |
| STR | 0 | 0 | 0 | 0 |
| 24 Parganas (N) | 0 | 0 | 0 | 0 |
| WL HQ | 0 | 0 | 0 | 0 |
| Siliguri SF | 0 | 0 | 0 | 0.00 |
| Total | 3436.8064 | 37075545.00 | 1228.9614 | 32229514.00 |

* Purulia – Seized 11 no of Poles valuing ₹ 2080.0



7.1.6 DETAILS OF ENCOUNTERS WITH OFFENDERS/PUBLIC DURING PROTECTION WORK

As per data provided by Divisions, 6 staff have been assaulted and 225 persons have been arrested during encounters with offenders/public during protection work. 17 persons have been convicted by the Honourable Court.

| DIVISIONS | No of Staff Assaulted | No of Staff Murdered | No of person Arrested | No of person convicted in Court |
|------------------|-----------------------|----------------------|-----------------------|---------------------------------|
| Darjeeling | 0 | 0 | 0 | 0 |
| Kurseong | 0 | 0 | 27 | 0 |
| Kalimpong | 0 | 0 | 0 | 0 |
| Darjeeling WL | 0 | 0 | 3 | 0 |
| Baikunthapur | 0 | 0 | 57 | 0 |
| Jalpaiguri | 3 | 0 | 32 | 0 |
| BTR East | 0 | 0 | 10 | 0 |
| BTR West | 0 | 0 | 32 | 5 |
| Coochbehar | 0 | 0 | 0 | 0 |
| Jaldapara WL | 0 | 0 | 0 | 0 |
| Gorumara WL | 1 | 0 | 12 | 4 |
| Raiganj | 0 | 0 | 0 | 0 |
| Malda | 0 | 0 | 2 | 0 |
| Bankura North | 0 | 0 | 0 | 0 |
| Bankura South | 0 | 0 | 0 | 0 |
| Panchet | 0 | 0 | 7 | 2 |
| Kangsabati North | 0 | 0 | 0 | 0 |
| Kangsabati South | 0 | 0 | 0 | 0 |
| Purulia | 0 | 0 | 0 | 0 |
| Burdwan | 0 | 0 | 6 | 6 |
| Durgapur | 0 | 0 | 0 | 0 |
| Midnapur | 0 | 0 | 0 | 0 |
| Jhargram | 0 | 0 | 0 | 0 |
| Rupnarayan | 0 | 0 | 0 | 0 |
| Kharagpur | 1 | 0 | 0 | 0 |
| Purba Midnapur | 0 | 0 | 0 | 0 |
| Birbhum | 0 | 0 | 0 | 0 |
| Nadia Msd | 0 | 0 | 4 | 0 |
| 24 Parganas(S) | 1 | 0 | 0 | 0 |
| Howrah | 0 | 0 | 8 | 0 |
| STR | 0 | 0 | 0 | 0 |
| WL HQ | 0 | 0 | 5 | 0 |
| 24 Parganas (N) | 0 | 0 | 20 | 0 |
| Siliguri SF | 0 | 0 | 0 | 0 |
| Total | 6 | 0 | 225 | 17 |



7.1.7 Details of Vehicles Seized and Confiscated for Carrying Illegal Forest Produce

A total of 1826 number of vehicles including HMV, LMV, Boat and hand drawn vehicle was seized and 853 numbers of vehicles was confiscated for carrying illegal forest produce during the F.Y.2020-21.

| Name of Divisions | HMV | | LMV | | Hand van, Thela etc. | | BOAT | | OTHER | |
|-------------------|-----------|-------------|------------|-------------|----------------------|-------------|----------|-------------|-----------|-------------|
| | Seized | Confiscated | Seized | Confiscated | Seized | Confiscated | Seized | Confiscated | Seized | Confiscated |
| Darjeeling | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kurseong | 4 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 |
| Kalimpong | 1 | 1 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| Darjeeling WL | 0 | 0 | 3 | 0 | 43 | 0 | 0 | 0 | 0 | 0 |
| Siliguri SF | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Baikunthapur | 16 | 7 | 0 | 0 | 27 | 27 | 0 | 0 | 0 | 0 |
| Jalpaiguri | 2 | 0 | 41 | 0 | 108 | 0 | 0 | 0 | 5 | 0 |
| BTR East | 3 | 0 | 7 | 0 | 541 | 0 | 0 | 0 | 0 | 0 |
| BTR West | 6 | 2 | 26 | 15 | 744 | 744 | 0 | 0 | 36 | 36 |
| Coochbehar | 4 | 0 | 3 | 0 | 12 | 0 | 0 | 0 | 2 | 0 |
| Jaldapara WL | 27 | 10 | 10 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| Gorumara WL | 0 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 4 | 0 |
| Raiganj | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Malda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura North | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura South | 1 | 0 | 13 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Panchet | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kangsabati North | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 |
| Kangsabati South | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Purulia | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 |
| Burdwan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Durgapur | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Midnapur | 0 | 0 | 1 | 0 | 38 | 0 | 0 | 0 | 9 | 0 |
| Jhargram | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rupnarayan | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kharagpur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Purba Midnapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Birbhum | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 1 | 0 |
| Nadia Msd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas(S) | 1 | 0 | 0 | 0 | 1 | 0 | 4 | 0 | 1 | 0 |
| Howrah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas (N) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| STR | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 |
| WL HQ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 76 | 21 | 122 | 25 | 1552 | 771 | 8 | 0 | 68 | 36 |



7.1.8 Details of Timber & Fire Wood Seized and Confiscated from Vehicles and Value of Forest Produce

A total volume of 576.6856 m³ timber valuing approximately ₹ 91,13,043.708 was seized from the vehicles and 279.654 m³ valued at ₹ 79,42,104.00 was confiscated. A total volume of 46.6 m³ firewood valued approximately ₹ 42,000.00 was seized from vehicles and 2.7 m³ valued at ₹ 5,400.00 was confiscated.

| Divisions | TIMBER | | | | FIRE WOOD | | | |
|------------------|--------------------------------|-------------------------------------|--------------------------|--------------------------------|--------------------------------|-----------------------------------|--------------------------|------------------------------|
| | Seized (in m ³) | Confiscated (in m ³) | Seized Value (in INR) | Confistd. Value (in INR) | Seized (in m ³) | Confistd. (in m ³) | Seized value (in INR) | Confis. Value (in INR) |
| Darjeeling | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kurseong | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kalimpong | 9.712 | 5.832 | 607000 | 389400 | 0 | 0 | 0 | 0 |
| Darjeeling WL | 13.166 | 0 | 320764 | 0 | 33.6 | 0 | 32000 | 0 |
| Siliguri SF | 44.918 | 18.343 | 0 | 0 | 0 | 0 | 0 | 0 |
| Baikunthapur | 132.213 | 57.843 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jalpaiguri | 47.279 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BTR East | 136.611 | 101.527 | 0 | 0 | 0 | 0 | 0 | 0 |
| BTR West | 72.872 | 72.026 | 7560000 | 7455000 | 0 | 0 | 0 | 0 |
| Cooch Behar | 5.903 | 0 | 160000 | 0 | 0 | 0 | 0 | 0 |
| Jaldapara WL | 45.894 | 5.895 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gorumara WL | 3.72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Raiganj | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Malda | 5.208 | 5.208 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura North | 11.269 | 11.269 | 78883 | 78883 | 0 | 0 | 0 | 0 |
| Bankura South | 11.872 | 1.711 | 130592 | 18821 | 3.00 | 2.7 | 6000 | 5400 |
| Panchet | 17.295 | 0 | 1231.708 | 0 | 0 | 0 | 0 | 0 |
| Kangsabati North | 0.186 | 0 | 1860 | 0 | 0 | 0 | 0 | 0 |
| Kangsabati South | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Purulia | 9.0626 | 0 | 209632 | 0 | 0 | 0 | 0 | 0 |
| Burdwan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Durgapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Midnapur | 1.985 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jhargram | 6.642 | 0 | 32545 | 0 | 0 | 0 | 0 | 0 |
| Rupnarayan | 0.878 | 0 | 10536 | 0 | 0 | 0 | 0 | 0 |
| Kharagpur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Purba Midnapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Birbhum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nadia Msd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas(S)* | 0 | 0 | 0 | 0 | 10 | 0 | 4000 | 0 |
| Howrah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| STR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas (N) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WL Hq. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 576.6856 | 279.654 | 9113043.708 | 7942104.00 | 46.6 | 2.7 | 42000.00 | 5400.00 |



7.1.9 Status of Number of Cases Pending and Disposed by the Courts

Total Number of cases pending at various Courts as on 01/04/2020 was 4236, No. of new cases registered during 2020-21 was 305 and No. of cases disposed by the Honourable Courts during 2020-21 was 21. The Balance cases pending as on 31/03/2021 is 4520 out of which 4153 number of cases is pending in the Courts of CJM/ACJM, 280 number of cases is pending in the Court of District /Sessions Judge and 84 number of Cases is pending in the Honourable High Court and 3 number of cases was being tried before the Honourable Supreme Court.

| Divisions | No of cases pending as on 01/04/2020 | No of new cases during 2020-21 | Total no of cases | No of cases disposed during 2020-21 | Balance cases pending as on 31/03/2021 |
|------------------|--------------------------------------|--------------------------------|-------------------|-------------------------------------|--|
| Darjeeling | 52 | 0 | 52 | 0 | 52 |
| Kurseong | 285 | 46 | 331 | 0 | 331 |
| Kalimpong | 3 | 1 | 4 | 0 | 4 |
| Darjeeling WL | 109 | 8 | 117 | 0 | 117 |
| Siliguri SF | 18 | 0 | 18 | 0 | 18 |
| Baikunthapur | 632 | 62 | 694 | 0 | 694 |
| Jalpaiguri | 651 | 26 | 677 | 0 | 677 |
| BTR East | 241 | 8 | 249 | 1 | 248 |
| BTR West | 594 | 35 | 629 | 2 | 627 |
| Cooch Behar | 46 | 11 | 57 | 0 | 57 |
| Jaldapara WL | 225 | 12 | 237 | 2 | 235 |
| Gorumara WL | 44 | 18 | 62 | 0 | 62 |
| Raiganj | 62 | 8 | 70 | 0 | 70 |
| Malda | 16 | 2 | 18 | 0 | 18 |
| Bankura North | 28 | 1 | 29 | 0 | 29 |
| Bankura South | 285 | 18 | 303 | 9 | 294 |
| Panchet | 28 | 5 | 33 | 0 | 33 |
| Kangsabati North | 22 | 10 | 32 | 4 | 28 |
| Kangsabati South | 13 | 0 | 13 | 0 | 13 |
| Purulia | 80 | 0 | 80 | 0 | 80 |
| Burdwan | 51 | 0 | 51 | 0 | 51 |
| Durgapur | 24 | 4 | 28 | 0 | 28 |
| Midnapur | 52 | 1 | 53 | 0 | 53 |
| Jhargram | 9 | 0 | 9 | 0 | 9 |
| Rupnarayan | 20 | 0 | 20 | 2 | 18 |
| Kharagpur | 62 | 6 | 68 | 0 | 68 |
| Purba Midnapur | 8 | 0 | 8 | 0 | 8 |
| Birbhum | 52 | 0 | 52 | 0 | 52 |
| Nadia Msd | 26 | 4 | 30 | 0 | 30 |
| 24 Parganas(S) | 77 | 6 | 83 | 0 | 83 |
| Howrah | 17 | 2 | 19 | 0 | 19 |
| STR | 213 | 0 | 213 | 1 | 212 |
| Wildlife HQ | 137 | 3 | 140 | 0 | 140 |
| 24Parganas(N) | 54 | 8 | 62 | 0 | 62 |
| Total | 4236 | 305 | 4541 | 21 | 4520 |



7.1.10 Status of Cases Pending At Various Honourable Courts as on 31/03/2021

| Divisions | No of cases | CJM Court/ACJM | District/ Sessions Court | High Court | Supreme Court. |
|------------------|-------------|----------------|-----------------------------|------------|----------------|
| Darjeeling | 52 | 52 | 0 | 0 | 0 |
| Kurseong | 331 | 331 | 0 | 0 | 0 |
| Kalimpong | 4 | 4 | 0 | 0 | 0 |
| Darjeeling WL | 117 | 117 | 0 | 0 | 0 |
| Siliguri SF | 18 | 17 | 1 | 0 | 0 |
| Baikunthapur | 694 | 692 | 0 | 2 | 0 |
| Jalpaiguri | 677 | 677 | 0 | 0 | 0 |
| BTR East | 248 | 235 | 1 | 12 | 0 |
| BTR West | 627 | 626 | 0 | 1 | 0 |
| Coochbehar | 57 | 57 | 0 | 0 | 0 |
| Jaldapara WL | 235 | 233 | 2 | 0 | 0 |
| Gorumara WL | 62 | 62 | 0 | 0 | 0 |
| Raiganj | 70 | 68 | 0 | 2 | 0 |
| Malda | 18 | 18 | 0 | 0 | 0 |
| Bankura North | 29 | 20 | 0 | 9 | 0 |
| Bankura South | 294 | 66 | 219 | 9 | 0 |
| Panchet | 33 | 23 | 6 | 4 | 0 |
| Kangsabati North | 28 | 21 | 0 | 7 | 0 |
| Kangsabati South | 13 | 13 | 0 | 0 | 0 |
| Purulia | 80 | 80 | 0 | 0 | 0 |
| Burdwan | 51 | 44 | 2 | 4 | 1 |
| Durgapur | 28 | 17 | 6 | 5 | 0 |
| Midnapur | 53 | 37 | 3 | 13 | 0 |
| Jhargram | 9 | 7 | 2 | 0 | 0 |
| Rupnarayan | 18 | 18 | 0 | 0 | 0 |
| Kharagpur | 68 | 68 | 0 | 0 | 0 |
| Purba Midnapur | 8 | 1 | 0 | 7 | 0 |
| Birbhum | 52 | 17 | 35 | 0 | 0 |
| Nadia Msd | 30 | 30 | 0 | 0 | 0 |
| 24 Parganas(S) | 83 | 83 | 0 | 0 | 0 |
| Howrah | 19 | 16 | 3 | 0 | 0 |
| STR | 212 | 210 | 0 | 2 | 0 |
| Wildlife HQ | 140 | 136 | 0 | 3 | 1 |
| 24 Parganas(N) | 62 | 57 | 0 | 4 | 1 |
| Total | 4520 | 4153 | 280 | 84 | 3 |



7.1.1.1 Raids Conducted on Pvt.timber and Forest Based Industries During 2020-21

| Division | No of raid | Plywood and Veneer industries | | | | Saw Mill | | | | Private Timber Depot & other wood base industry | | | |
|------------------|------------|---------------------------------------|-------------|----------------------|-------------|---------------------------------------|-------------|----------------------|-------------|---|-------------|----------------------|-------------|
| | | Quantity of Wood (in m ³) | | Value of Wood (in ₹) | | Quantity of Wood (in m ³) | | Value of Wood (in ₹) | | Quantity of Wood (in m ³) | | Value of Wood (in ₹) | |
| | | Seized | Confiscated | Seized | Confiscated | Seized | Confiscated | Seized | Confiscated | Seized | Confiscated | Seized | Confiscated |
| Darjeeling | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kurseong | 1 | 0 | 0 | 0 | 0 | 0.907 | 0 | 5442.00 | 0 | 0 | 0 | 0 | 0 |
| Kalimpong | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Darjeeling WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Baikunthapur | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jalpaiguri | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BTR East | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BTR West* | 152 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CoochBehar | 198 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 137.225 | 0 | 0 | 0 |
| Jaldapara WL | 2 | 0 | 0 | 0 | 0 | 3.087 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gorumara WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Raiganj | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Malda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura North | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura South | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Panchet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kangsabati North | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kangsabati South | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |





| Division | No of raid | Plywood and Veneer industries | | | | Saw Mill | | | | Private Timber Depot & other wood base industry | | | |
|----------------|------------|---------------------------------------|-------------|----------------------|-------------|---------------------------------------|-------------|----------------------|-------------|---|-------------|----------------------|-------------|
| | | Quantity of Wood (in m ³) | | Value of Wood (in ₹) | | Quantity of Wood (in m ³) | | Value of Wood (in ₹) | | Quantity of Wood (in m ³) | | Value of Wood (in ₹) | |
| | | Seized | Confiscated | Seized | Confiscated | Seized | Confiscated | Seized | Confiscated | Seized | Confiscated | Seized | Confiscated |
| Purulia | 1 | 0 | 0 | 0 | 0 | 1.974 | 0 | 20000.0 | 0 | 0 | 0 | 0 | 0 |
| Burdwan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Durgapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Midnapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jhargram | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Rupnarayan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kharagpur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Purba Midnapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Birbhum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Nadia Msd | 3 | 0 | 0 | 0 | 0 | 1.261 | 0 | 15000.00 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas(S) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Howrah | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 00 | 0 | 0 | 0 |
| STR | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 |
| 24Parganas (N) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 |
| Siliguri SF | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 359 | 0 | 0 | 0 | 0 | 7.229 | 0 | 40442.00 | 0 | 137.225 | 0 | 0 | 0 |

* BTR(W) – Timber seized from village raid – 487.101 m³, from train raid – 2.415 m³, from vehicle – 58.661 m³, recovered from forest- 99.276 m³.

7.1.12 Status of Forest & Wildlife Mobile Patrolling Party & Mobile Squads in West Bengal as on 31.03.2020

As reported by Divisions, for undertaking exclusively protection works in forest and protected areas, there are 70 numbers of forest and wildlife Mobile Patrolling Party and Mobile Squad existing in West Bengal.

| Name of Division | Name of MPP/MS | Location | Contact Number |
|--------------------------------|-------------------------|-----------------------|-----------------------------|
| Darjeeling | NIL | – | – |
| Kurseong | Bagdogra Elephant Squad | Bagdogra | – |
| Darjeeling WL | Wild Life Squad I | Sukna | – |
| Baikunthapur | MPP—Range | Siliguri | – |
| | MPP-2 Range | Belacoba | – |
| | MPP-3Range | Odlabari | – |
| | Belacoba Elephant Squad | Belacoba | – |
| Jalpaiguri | Jalpaiguri MPP Range | Hakimpura, Jalpaiguri | 03561-230118, 9851001588 |
| BTR East | Mobile (East) Range | Kamakshyaguri | – |
| BTR West | MPP Damanpur | Damanpur | – |
| | MPP Pana | Pana | – |
| CoochBehar | Talliguri | Talliguri | – |
| Jaldapara WL | Madarihat WL Squad | Madarihat | – |
| Gorumara WL | W L Squad II | Malbazar | – |
| | W L Squad III | Bannaguri | – |
| | Khunia W L Squad | Khunia | – |
| | Ramsi MPP Range | Ramshi | – |
| Raiganj | Raiganj Mobile Squad | Raiganj | 8670912026 |
| Malda | MPP Malda | Malda HQ Range | 9749310762 |
| Bankura North | MPP Sonamukhi | Sonamukhi | 9083254717 |
| | MPP Beliatore | Beliatore | 9083254747 |
| Bankura South | MPP Pirrorgari | Pirrorgari R.O. | – |
| Panchet | MPP- Bishnupur range | Bishnupur | – |
| | MPP- Bankadaha Range | Bankadaha | – |
| | Quick Response Team | Panchayet Division | – |
| Kangsabati North | NIL | – | – |
| Kangsabati South | NIL | – | – |
| Purulia | Jhalda MPP | Jhalda RO Complex | – |
| Extension Forestry Div. | NIL | – | – |
| Burdwan | Raghunathpur MPP | Ijjatganj PS. Kanksa | – |
| Durgapur | NIL | – | – |
| Midnapur | MPP Range | Midnapur | – |
| Jhargarm | MPP Jhargarm | Jhargarm | 8001846844 |
| | MPP Belpahari | Belpahari | 9732122179 |



| Name of Division | Name of MPP/MS | Location | Contact Number |
|---------------------------|----------------------------|----------------------|----------------|
| Rupnarayan | Mahalisai- I | Mahalisai | 9732729688 |
| Kharagpur | MPP Range-1 | Panchkahania | — |
| Purba Midnapur | NIL | — | — |
| Birbhum | NIL | — | — |
| Nadia Murshidabad | NIL | — | — |
| 24 Parganas North | NIL | — | — |
| Howrah | NIL | — | — |
| Utilisation | NIL | — | — |
| 24 Parganas(South) | Dhanchi Beat, | Ramganga Range | — |
| | Patharpratima Camp, | | — |
| | Chulkati Camp | | — |
| | Mahestala Beat | Diamond Harbor Range | — |
| | Nainan Beat | | — |
| | Nalgora Beat | Raidhagi Range | — |
| | Kultali Beat | | — |
| | Bonnie Camp | | — |
| | Kankramari Camp | Namkhana Range | — |
| | Sagar Beat | | — |
| | Saptamukhi Beat | | — |
| | Patibunia Beat | Bakkhali Range | — |
| | Uttar Bakkhali Beat | | — |
| | Dakshin Bakkhali Beat | | — |
| | Jambudwip Camp | | — |
| | Jharkhali Beat | Matla Range | — |
| | Lothian Old Camp | Bhagabatpur Range | — |
| | Lothian New Camp | | — |
| | Chandanpiri Beat | | — |
| | CKBS, Narendrapur | Baruipur Range | — |
| | Piali Beat | | — |
| | Mathurapur Beat | | — |
| | Head Quarter Beat | | — |
| STR | Sandak Khali Floating Camp | — | — |
| | Pirkhali Floating Camp | — | — |
| | Tetultala Floating Camp | — | — |
| | Chilmari Floating Camp | — | — |
| | Kakmari Floating Camp | — | — |
| | Chayan MPP | — | — |
| | Rampura MPP | — | — |
| | Bonraj MPP | — | — |



7.1.13 Incidents of Forest Fire During the Year 2020-21

The Divisions have reported a total of 418 forest fire incidents in the various forests of the State West Bengal, the maximum incidence being reported from Medinipur Division. About 1,793.392ha. forest area has been affected by fire.

| Division | No. of Occurrence | Area Affected (Ha) | Estimated Loss (₹) |
|---------------------|-------------------|--------------------|---------------------|
| BAIKUNTHAPUR | 90 | 386.18 | 4,13,500 |
| JALPAIGURI | 53 | 67.3 | 6,87,996 |
| GORUMARA WILDLIFE | NIL | – | – |
| BANKURA(NORTH) | 44 | 17.75 | NIL |
| BANKURA(SOUTH) | 51 | 294.5 | 461600 |
| PANCHET | 16 | 47 | NIL |
| BIRBHUM | 8 | 12.2 | NIL |
| BTR EAST | 2 | 1.65 | NIL |
| BTR WEST | 8 | 10.6 | NIL |
| WILD LIFE-III | 4 | 258.84 | 29,50,000 |
| COOCHBEHAR | 1 | 11.5 | NIL |
| DARJEELING | 1 | 5 | NIL |
| DARJEELING WILDLIFE | NIL | – | – |
| KURSEONG | NIL | – | – |
| KALIMPONG | 18 | 51 | NIL |
| HOWRAH | NIL | – | – |
| JHARGRAM | 25 | 43.09 | NIL |
| KHARAGPUR | NIL | – | – |
| MEDINIPUR | 32 | 328.029 | 7,000 |
| RUPNARAYAN | 9 | 81 | 1,62,000 |
| PURULIA | 12 | 49.526 | 3,58,500 |
| KANGSABATI NORTH | 6 | 61.5 | 1,80,000 |
| KANGSABATI SOUTH | NIL | – | – |
| NADIA-MURSHIDABAD | 3 | 3.8 | NIL |
| MALDA | NIL | – | – |
| PURBA BURDWAN | 30 | 53.327 | NIL |
| PASCHIM BURDWAN | 3 | 2.6 | 62,000 |
| RAIGANJ | 2 | 7 | 11,40,000 |
| TOTAL | 418 | 1,793.392 | 64,22,596.00 |



7.1.14 Status of Forest Land under Encroachment as on 31.03.2021

As per report received from the Divisions, no new area encroached and 471.295 ha encroached forest area was evicted during F.Y. 2020-21. As on 31.03.2021, the total forest land encroached in West Bengal stands at 9219.3466 ha.

| Forest Division | New Encroachment during F.Y. 2020-21 (in ha) | Encroachment evicted during F.Y. 2020-21 (in ha) | Total area under encroachment as on 31/03/2021 (in ha) |
|------------------|--|--|--|
| Darjeeling | 0 | 0 | 31.88 |
| Kurseong | 0 | 0 | 2.86 |
| Kalimpong | 0 | 0 | 416.41 |
| Darjeeling WL | 0 | 0 | 63.95 |
| Baikunthapur | 0 | 0 | 198.384 |
| Jalpaiguri | 0 | 0 | 0 |
| Gorumara WL | 0 | 0 | 50.86 |
| BTR East | 0 | 0 | 0 |
| BTR West | 0 | 0 | 0 |
| Coochbehar | 0 | 1.89 | 679.23 |
| Jaldapara WL | 0 | 0 | 1.50 |
| Raiganj | 0 | 0 | 4.0 |
| Malda | 0 | 2 | 260 |
| Bankura North | 0 | 252.405 | 454.532 |
| Bankura South | 0 | 150 | 966.0556 |
| Panchet | 0 | 0 | 730.7 |
| Kangsabati North | 0 | 0 | 444.37 |
| Kangsabati South | 0 | 0 | 138.68 |
| Purulia | 0 | 40 | 681.666 |
| Burdwan | 0 | 0 | 239.35 |
| Durgapur | 0 | 0 | 615.57 |
| Midnapur | 0 | 0 | 350.817 |
| Jhargram | 0 | 0 | 1502.92 |
| Rupnarayan | 0 | 22.00 | 921.25 |
| Kharagpur | 0 | 0 | 399.099 |
| Purba Midnapur | 0 | 0 | 2.10 |
| Birbhum | 0 | 0 | 31.31 |
| Nadia Msd | 0 | 0 | 4 |
| 24 Parganas(S) | 0 | 0 | 0 |
| 24 Parganas (N) | 0 | 0 | 0 |
| Howrah | 0 | 3.00 | 27.853 |
| Total | 0 | 471.295 | 9219.3466 |





8.1 INTRODUCTION

Prior to the enactment of the Forest (Conservation) Act, 1980 recorded forest lands were vulnerable to diversion for different non-forestry activities viz. creation of human settlements, agriculture, construction of dams, bridges, roads and other developmental activities. In order to check further depletion of the forest cover and to protect the forests, the Government of India enacted the Forests (Conservation) Act, 1980 and amended it from time to time with insertions of stringent stipulations. As per the

Act a majority of such diversions requires prior approval of the Ministry of Environment, Forests and Climate Change, Government of India except for very small areas to be diverted for basic public utilities in rural areas and also in Left Wing Extremist Areas where the powers are vested with the State Government. As a result quantum of diversion of forest land for non-forestry purposes has reduced appreciably.

In West Bengal, an area of 3098.4246 ha. of forest land, has been diverted for different non-forestry purpose till March 2021 (Table 1).

Table 8.1: Diversion of Forest Land for Non-Forest use in West Bengal since the enforcement of Forest (Conservation) Act, 1980

(Area in Hectares)

| Year | Area approved for diversion | Diversion Not executed | Temporary Diversion | Net Diversion |
|-----------|-----------------------------|------------------------|---------------------|---------------|
| 1981-1982 | 29.7720 | 0.2000 | 0.0000 | 29.5720 |
| 1982-1983 | 87.1900 | 0.0000 | 0.0000 | 87.1900 |
| 1983-1984 | 15.3250 | 2.44 | 0.0000 | 12.8850 |
| 1984-1985 | 13.3091 | 0.0000 | 0.0000 | 13.3091 |
| 1985-1986 | 306.0000 | 0.0000 | 0.0000 | 306.0000 |
| 1986-1987 | 23.7657 | 0.0178 | 0.0000 | 23.7479 |
| 1987-1988 | 16.7020 | 0.0000 | 0.0000 | 16.7020 |
| 1988-1989 | 18.9250 | 0.0000 | 0.0000 | 18.9250 |
| 1989-1990 | 94.4800 | 0.0300 | 0.0000 | 94.4500 |
| 1990-1991 | 19.3572 | 0.6270 | 0.0000 | 18.7302 |
| 1991-1992 | 47.5003 | 0.0823 | 0.0000 | 47.4180 |
| 1992-1993 | 78.1065 | 67.0665 | 0.0000 | 11.0400 |
| 1993-1994 | 232.0000 | 0.0000 | 0.0000 | 232.0000 |
| 1994-1995 | 45.0000 | 0.0000 | 0.0000 | 45.0000 |
| 1995-1996 | 93.9600 | 0.0000 | 0.0000 | 93.9600 |
| 1996-1997 | 1.6459 | 0.0000 | 0.0000 | 1.6459 |
| 1997-1998 | 6.7978 | 0.0000 | 0.0000 | 6.7978 |
| 1998-1999 | 21.6900 | 1.8200 | 0.0000 | 19.8700 |
| 1999-2000 | 3.0200 | 0.0000 | 0.0000 | 3.0200 |
| 2000-2001 | 0.9970 | 0.0000 | 0.0700 | 0.9270 |



| Year | Area approved for diversion | Diversion Not executed | Temporary Diversion | Net Diversion |
|--------------|-----------------------------|------------------------|---------------------|------------------|
| 2001-2002 | 285.9000 | 0.0000 | 0.0000 | 285.9000 |
| 2002-2003 | 10.0700 | 0.0000 | 0.0000 | 10.0700 |
| 2003-2004 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2004-2005 | 320.6220 | 18.1320 | 119.0000 | 183.4900 |
| 2005-2006 | 357.7672 | 0.1172 | 0.0000 | 357.6500 |
| 2006-2007 | 115.3580 | 0.0000 | 0.0000 | 115.3580 |
| 2007-2008 | 37.9535 | 0.0000 | 0.6000 | 37.3535 |
| 2008-2009 | 0.0750 | 0.0000 | 0.0000 | 0.0750 |
| 2009-2010 | 70.4841 | 0.0000 | 0.0000 | 70.4841 |
| 2010-2011 | 174.6918 | 0.1730 | 0.0000 | 174.5188 |
| 2011-2012 | 46.5794 | 14.5300 | 0.0000 | 32.0494 |
| 2012-2013 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2013-2014 | 58.7828 | 51.9022 | 0.0000 | 6.8806 |
| 2014-2015 | 11.0310 | 2.7000 | 0.0000 | 8.3310 |
| 2015-2016 | 10.5900 | 0.0000 | 0.0000 | 10.5900 |
| 2016-2017 | 49.8800 | 0.0000 | 0.0000 | 49.8800 |
| 2017-2018 | 79.2268 | 0.0000 | 0.0000 | 79.2268 |
| 2018-2019 | 74.4022 | 0.0000 | 0.0000 | 74.4022 |
| 2019-2020 | 102.3320 | 0.0000 | 0.0000 | 102.3320 |
| 2020-2021 | 137.1353 | 0.0000 | 0.0000 | 137.1353 |
| Total | 3098.4246 | 159.8380 | 119.6700 | 2818.9166 |

8.2 COMPENSATORY AFFORESTATION PLANTATION

During 2020-21, 122.42 ha. of Compensatory Afforestation plantations was created. Over 887.95 ha. of old Compensatory Afforestation Plantations was maintained and advance work of over 40 ha. was carried out in various divisions. An amount of ₹ 8.25 Crores was utilized during 2020-21 by the West Bengal CAMPA.

8.3 FINAL APPROVAL OF FOREST DIVERSION PROPOSALS

During 2020-21, the following diversion proposals were accorded final approval by Govt. of India / State Government.

- (i) Diversion of 17.876 ha of forest land in favour of Power grid Medinipur – Jeerat Transmission Limited for

construction of Transmission line from Ranchi 765/400 KV substation in Jharkhand to Medinipur 765/400 KV substation in West Bengal under Purulia, Kangsabati (S) and Bankura (S) Forest Division.

- (ii) Diversion of 0.497 ha. of forest land in favour of Power grid Medinipur Jeerat Transmission Limited for construction of Transmission Line from 400 KV Medinipur Substation to LIL point of Chanditala-Kharagpur Transmission Line under Medinipur Forest Division.
- (iii) Diversion of 0.03339 ha. of forest land in favour of "Karmathirtha" to build stalls where the SHG members can sell their product in front of Bengal Safari Park under Baikunthapur Forest Division.
- (iv) Diversion of 116.001 (152.146 ha.) of forest land for rehabilitation and upgrading to 2 lane with paved shoulders configuration of Bagrakot to Kafer in favour of National Highways and Infrastructure Development



Corporation Limited under Kalimpong Forest Division.

- (v) Diversion of 2.7279 ha. of forest land in favour of Jagdishpur-Haldia-Bokaro-Dhamra Pipeline (JHBDPL) project of Gail India Limited (GAIL) under Kangsabati (N) 0.5019 ha., Bankura (N) 0.596 ha., Burdwan 1.63 ha. Forest division.

8.4 NO OF APPROVED FOREST DIVERSION CASES

Since 1980, over 134 diversion proposals has been approved by the State and Central Governments and over 3098.4246 ha. of forest land has been diverted under ten categories.

Table -8.2: Statement showing the position of cases approved for diversion of Forest Land under Forest (Conservation) Act, 1980 till March, 2021.

| Sl. No. | Purpose of Diversion | Nos. |
|--------------------|---------------------------------------|------------|
| 1 | Irrigation Project | 5 |
| 2 | Hydel Project | 5 |
| 3 | Mining Project | 8 |
| 4 | Construction of Road | 18 |
| 5 | Laying of Railway Line | 2 |
| 6 | Laying of Transmission Line/Pipe Line | 42 |
| 7 | Thermal Project | 2 |
| 8 | Drinking Water Project | 4 |
| 9 | Defence Project | 3 |
| 10 | Others | 45 |
| Total (Nos) | | 134 |





9.1 GIS IN FOREST MANAGEMENT

The GIS cell was created in July 1999 in the office of the Conservator of forests, Working plan and GIS circle at Kolkata

Initially the cell had started functioning with one license of ARC Info and ERDAS software. At present there are 4 licensed workstations with Arc Pro and ERDAS. GIS lab works on preparation of digital maps, interpretation of satellite imageries and organizes training for field staff regarding GIS applications. There are 3 software support personnel and 3 number of Data Entry operators and 01 GIS trained Dr/Fr working in the GIS lab. Another Beta officer who is in charge of head quarter Range also supervises the activities of GIS lab.

9.1.1 Works Undertaken and Executed by Working Plan and GIS Cell

1. Digitization of District/Division and PS maps:

The work on digitization of forest boundaries Started from the year 2007 in the state of West Bengal with inner details of forest areas like stock map etc. All the Divisions have been completed using Remote Sensing and GIS Software (Arc GIS & ERDAS) along with geo referencing using Polyconic Projection system based on PS maps. Now, we are digitizing the boundary and inner details of Forest areas (Stock Maps) using latest WGS-84 Datum on an exact scale of 1:15000 and are being updated to the current system. Recently digitization of forest boundaries using WGS-84 datum has been completed in Jalpaiguri Division, Kalimpong Division and Kurseong Division. The digitization of forest boundaries Purulia district is ongoing currently.

2. Satellite Imageries:

Images from Rapid Eye satellite pertaining to the year 2013 to 2018 have been procured by West Bengal Forestry and Biodiversity Conservation Project from NRSA Hyderabad for the state and handed over to GIS lab. These satellite imageries are being used in boundary digitization, Change detection monitoring, Upgrading of forest maps and preparation of stock maps.

3. Monitoring of Forest Fires:

CF working Plan and GIS is the nodal officer for the state of West Bengal for monitoring Forest Fires. SNPP and MODIS data is received from FSI fire portal. The GIS Lab in Working Plan and GIS Circle generates daily alerts for the forest fire incidences based on the forest fire detections of the MODIS data (NASA-FIRMS/EARTHDATA).

FSI daily fire alerts (MODIS and SNPP) are also sent to registered mobile numbers of all frontline staff. All the officers from DFO level to Beat Officer are registered with FSI fire portal to receive SMS alert on forest fires in their jurisdiction. So far 911 no of staff has been registered. After locating the fire incidents the same is mapped on the GIS Based Divisional Maps available in the GIS Lab.

The same information is communicated to the concerned DFO for necessary action and reported back on daily basis so that fire prevention and control measures, extent of damage etc is reported back to the GIS Lab for needful record on day to day basis.

4. Stock Map (Volume II):

The sock maps of Purulia divisions are being prepared. The digitization of forest boundaries of Purulia is going on and simultaneously stock maps are also being prepared for volume III.

5. Working Plan preparation:

The inner detail survey and growing stock estimation and sampling are complete writing of plan is under way for Purba Bardhaman and Paschim Bardhaman. The inner detail survey, growing stock estimation has been completed w.r.t Jaldapara Wildlife Division and Baikuntpur Division.

6. JFMC boundary digitalization:

Digitization of JFMC boundary of Kangsabati North Division is being done with the support of West Bengal Forestry and Biodiversity conservation project. So far 22 number of JFMC have been digitized.

9.1.1.a Working Plan and GIS Circle and the Divisions

The protection and management of forests are prescribed by Working Plans in 15 districts of West Bengal and total no. of working plans are 17. These 17 working plans covers



09 territorial circles. Territorial part of Jaldapara Wild Life division also comes under working plan.

There are three Working Plan Divisions to prepare and oversee the implementation of the working plans.

Working Plan Division, South I: is stationed at Midnapore. This Working plan South I Division covers Purba Midnapore, Paschim Midnapore, Jhargram, Nadia and Murshidabad, 24 Parganas (South), Malda and Uttar and Dakshin Dinajpur Districts. Among these districts Nadia, Murshidabad, Maldah, Uttar and Dakshin Dinajpur have very little forest area. The main forest area is concentrated in Paschim Midnapore and Jhargram districts.

Working Plan Division, South II: is stationed at Bankura and looks after working plan activities of Bankura, Birbhum, Purba Bardhaman, Paschim Bardhaman and Purulia districts.

Working Plan Division, North: is stationed at Darjeeling and looks after the working plan activities of Darjeeling, Jalpaiguri, Coochbehar and Alipurduar districts.

These three DFO Working Plan divisions are headed by Divisional Forest Officer and are under administrative control of Conservator of Forest, Working Plan and GIS Circle who reports to Chief Conservator of Forests, HQ under PCCF, HoFF, West Bengal.

9.1.2 Status of revision of Working Plans

The details of present status of 17 Working Plans of West Bengal Forest Directorate, are given below.

| Abstract | | |
|---|---|-----------|
| Total Approved by GOI | Paschim Medinipur, Bankura, Purulia, Birbhum, Purba Medinipur, Nadia Murshidabad, Uttar and Dakshin Dinajpur, Coochbehar, 24 Parganas South, Jalpaiguri | 10 |
| Ready for submission | Kalimpong and Kurseong | 2 |
| Revision/Under Preparation (in progress) | Darjeeling, Baikunthapur, Jaldapara WL Division, Purba Bardhaman, Durgapur, Howrah, Malda | 5 |
| Total | | 17 |

| Status of Working Plans | | | | |
|-------------------------|-------------------------|------------------|-------------------------|---|
| District | Forest Division | | Working plan period | Remarks |
| Darjeeling | Darjeeling Sub Division | 12 th | 1997-98 to 2017-18 | Field survey is complete, Writing is under process. Stock map preparations under way |
| | Kalimpong Sub Division | 9 th | 1997-98 to 2017-18 | Complete, standing consultative committee has recommended few changes and corrections are incorporated and will be placed before SCC. |
| | Kurseong Sub Division | 6 th | 1997-98 to 2017-18 | Complete, standing consultative committee has recommended few changes and corrections are incorporated and will be placed before SCC |
| Jalpaiguri | Jalpaiguri | 10 th | 2016-17 to 2026-27 | Approved vide no 9(31)15/2019-FCE 23 March 2021 |
| | Baikunthpur | 4 th | 2010-11 to 2019-20 | PWPR submitted, Inner detail survey going on |
| 24 Parganas South | 24- Parganas, South | 3 rd | 2014-15-2023-24 | Approved vide 9 (31)10/2013-FCE, dt. 09.03.2018 |
| Purba Medinipur | Purba Medinipur | 1 st | 2014-15 to 2023-24 | Approved vide 9(31)/11/2014-FCE dated 26 th July 2019 |
| Paschim Medinipur | Midnapore | 3 rd | 2014-15 to 2023 to 2024 | Approved vide 13-FCWP/WB-MDPR (W), dt. 14.08.2014 |
| | Kharagpur SF | | | |
| | Rupnarayan (P&S) | | | |
| | Jhargram | | | |



| Status of Working Plans | | | | |
|---------------------------------------|-----------------------------|-----------------|------------------------------|--|
| District | Forest Division | | Working plan period | Remarks |
| Bankura | Bankura (N) | 2 nd | 2013-14 to 2022-23 | Approved vide 13-FCWP/WB-BANK, dt. 12.07.2013 |
| | Bankura (S) | | | |
| | Panchet | | | |
| Purulia | Purulia | 2 nd | 2014-15 to 2023-24 | Approved vide 9(31) 14/2018-FCE dtd 07/06/2019. |
| | Kangsabati SC-I | | | |
| | Kangsabati SC-II | | | |
| Birbhum | Birbhum | 2 nd | 2013-14 to 2022-23 | Approved |
| Burdwan | Burdwan | 2 nd | 2010-11 to 2019-20 (Expired) | PWPR submitted, inner detail survey complete. writing of plan is under way |
| | Durgapur | | | |
| Howrah (Included in WP of Burdwan) | Arambagh Range of Howrah SF | 2 nd | 2010-11 to 2019-20(expired) | – |
| Nadia & Murshidabad | Nadia Murshidabad | 2 nd | 2013-14 to 2022-23 | Approved |
| Malda | Malda | 1 st | 2010-11 to 2019-20 (Expired) | Field survey is proposed and will be taken up. |
| Uttar and Dakshin Dinajpur | Raiganj | 1 st | 2012-13 to 2021-22 | Approved |
| Coochbehar | Coochbehar SF | 1 st | 2014-15 to 2023-24 | Approved |
| Jaldapara WI division | | 5 th | 2010 -2020 | PWPR submitted, inner detail survey going on. |

9.1.3 Report on Felling during 2019-20 in West Bengal

The felling and other actions are accomplished as per the Working Plan prescriptions for respective divisions after due approval of the Ministry of Environment & Forests and Climate Change (MoEF& CC), Government of India. Accordingly, the following report is compiled and submitted for the year under consideration:

Timber production Working Circle in West Bengal, felling operations undertaken during 2019-20 and proposed felling during 2021-22 are detailed as below:

The Report on main Production Working Circles in West Bengal is as follows:

9.1.3. (a) In South Bengal

- 1. Sal Coppice Working Circle:** The area under Sal Coppice Working Circle is approximately 2,48,614.62 ha. This Working Circle covers a large tract of Forest areas in Midnapur, Bankura, Purulia, Burdwan, Birbhum and Nadia -Murshidabad districts in West Bengal. The annual felling target as per Working Plans was 3973.49 ha. However, during the year 2019-20 an area of 3146.22 ha was felled. The target for felling in 2021-22 is 3338.2 ha.
- 2. Development Working Circle:** The area under Development Working Circle is approximately 1,84,565.253 ha. This Working Circle is in operation in Midnapur, Bankura, Purulia, Burdwan and Birbhum districts in West Bengal. The annual



felling target as per Working Plans in 2019-20 was 3,726.95 ha, however, during the year 2019-20 an area of 2519.3ha was harvested. The target for felling in 2021-22 is 3429.12 ha.

- 3. Total yield of South Bengal of 2019-20:** The total production of Sal poles in South Bengal was 15,60,434 no. & Cogging Sleeper was 5,44,323 no.

The total production of Akashmoni and Eucalyptus poles in South Bengal was 9,41,012 no and pulpwood was 38.856M³ from the South Bengal Forests. Fire Wood production was 1,04,564 m³. Total timber production from south Bengal was 9769.25m³.

9.1.3. (b) In North Bengal

- 1. Sal Working Circle:** The area under Sal Working Circle is approximately 20,485.2 ha. This Working Circle is in operation in Jalpaiguri, Coochbehar and Alipurduar Districts in West Bengal. The annual felling target as per Working Plans was 22.0 ha. During the year 2019-20 an area of 22.0 ha was felled. The target for felling in 2021-22 is 354.14 ha. The area mainly belongs to backlog areas since 2017-18 of Jalpaiguri division, the approval of working plan of Jalpaiguri has been received.
- 2. Miscellaneous Species Working Circle:** The area under Miscellaneous Species Working Circle is approximately 15,547.97 ha. This Working Circle is in operation in Jalpaiguri, Coochbehar and Alipurduar Districts in West Bengal. The annual felling target as per Working Plans was 55.74 ha. However, during the year 2019-20 an area of 8.83 ha was felled. The target for

felling in 2021-22 is 100.51 ha. The area mainly belongs to backlog areas of Jalpaiguri Division pending since 2017-18. The working plan approval has been received.

3. Broad Leaved Endemic Species Development Working Circle:

The area under Broad Leaved Endemic Species Development Working Circle is approximately 16,560.52 Ha. This Working Circle is in operation in Darjeeling and Kalimpong Districts in West Bengal. The annual felling target as per Working Plans was nil as the working plans are under revision and will be submitted soon.

- 4. Total yield of North Bengal of 2019-20:** Total timber yield in North Bengal was 5033.338 m³ and fire wood was 202 m³. Apart from this 1383.467m³ of timber was recovered from illicit felling offenses and raids. Cyclone damage produce recovered was 1566.16m³

9.1.4 Regeneration Operations during 2019-2020:

An area of 5695.55ha was felled during 2019-20 against the target of 7778.18 Ha.

An area of 5695.55ha was regenerated against the targeted area of 5695.55 ha.

Thinning Operations during 2019-20: Out of a targeted thinning area of 6402 ha. an area of 365ha no area was thinned under various thinning schedules The target of thinning area under 2021-22 is 2949.74 ha under various thinning schedules all over the State.

Total yield for the state during 2019-2020

| Abstract | | | |
|----------|--|--------------------|-------------------|
| SL No | Particulars | Volume (m3) | Figures in (No's) |
| 1 | Sal Pole | 97895.02509 | 1560434 |
| 2 | Akashmoni and Eucalyptus Poles | 43962.23874 | 941012 |
| 3 | Cogging Sleeper | 10462.175 | 544323 |
| 4 | Firewood in cum | 41482.652 | — |
| 5 | Pulp Wood in CUM/Short Timber in CUM | 38.856 | — |
| 6 | Timber in CUM | 14802.595 | — |
| 7 | Post | 1019.453716 | 8644 |
| | Total yield From CFC | 2,09,663.00 | 30,544,13 |
| 8 | Timber recovered from Cyclone damage | 1566.161 | — |
| 9 | Timber recovered in raids and Offences | 1383.467 | — |
| | Grand Total | 2,12,612.62 | — |



9.1.5 Summary of ATR of 2020-21

9.1.5 (a) Summary of Last Year Felling (2019-20)

| Operations prescribed in the Working Plan/Working Scheme | | Timber Operation 2019-20 | | | Regeneration (in Ha) | | Remarks |
|--|--------------|--------------------------|---------------------|--------------------------|--------------------------------|-------------------------------|---------|
| | | Physical Target (in Ha) | Achievement (in Ha) | Shortfall if any (in Ha) | Target (Felled coupes 2019-20) | Regeneration achieved 2020-21 | |
| Sal Working Circle | North Bengal | 22.00 | 22.00 | 0.00 | 22.00 | 22.00 | — |
| | North Bengal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| Sal Coppice Working Circle | S Bengal-I | 2119.50 | 1613.00 | 506.50 | 1613.00 | 1613.00 | — |
| | S Bengal-II | 1853.99 | 1533.22 | 320.77 | 1533.22 | 1533.22 | |
| | Total | 3973.49 | 3146.22 | 827.27 | 3146.22 | 3146.22 | |
| Development Working Circle | North Bengal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | S Bengal-I | 855.45 | 663.00 | 192.45 | 663.00 | 663.00 | — |
| | S Bengal-II | 2871.50 | 1856.30 | 1015.20 | 1856.30 | 1856.30 | |
| | Total | 3726.95 | 2519.30 | 1207.65 | 2519.30 | 2519.30 | |
| Miscellaneous Species Working Circle | North Bengal | 55.74 | 8.03 | 47.71 | 8.03 | 8.03 | — |
| Conifer & Misc Species Dev Working Circle | North Bengal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Broad Leave Endemic Spec Dev Working Circle | North Bengal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Eco Tourism & Eco Dev Working Circle | North Bengal | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — |
| Grand Total | | 7778.18 | 5695.55 | 2082.63 | 5695.55 | 5695.55 | — |



9.1.5 (b) (i) Summary of Last Year Thinning (2019-20 ATR) North Bengal

| Operations prescribed in the Working Plan/Working Scheme | Thinning Operation 2019-20 | | | | |
|--|----------------------------|-------------------------|---------------------|-----------------------|-------------------|
| | Thinning Type | Physical Target (in Ha) | Achievement (in Ha) | Shortfall if Any (Ha) | Remarks |
| Sal Working Circle | 5 th | 0.00 | 0.00 | 0.00 | Thinning not done |
| | 10 th | 233.10 | 0.00 | 233.10 | |
| | 15 th | 0.00 | 0.00 | 0.00 | |
| | 25 th | 30.11 | 0.00 | 30.11 | |
| | 35 th | 37.93 | 0.00 | 37.93 | |
| Sal Coppice Working Circle | 7 th | 275.83 | 0.00 | 275.83 | – |
| Miscellaneous Species Working Circle | 5 th | 0.00 | 0.00 | 0.00 | – |
| | 10 th | 14.06 | 0.00 | 14.06 | |
| | 15 th | 0.00 | 0.00 | 0.00 | |
| | 25 th | 94.00 | 0.00 | 94.00 | |
| | 35 th | 68.95 | 0.00 | 68.95 | |
| Conifer & Misc Species Dev Working Circle | 20 th | 0.00 | 0.00 | 0.00 | – |
| | 30 th | 0.00 | 0.00 | 0.00 | |
| | 40 th | 0.00 | 0.00 | 0.00 | |
| Broad Leaf Endemic Spec Dev Working Circle | 20 th | 0.00 | 0.00 | 0.00 | – |
| | 30 th | 0.00 | 0.00 | 0.00 | |
| | 50 th | 0.00 | 0.00 | 0.00 | |
| Eco Tourism & Eco Dev Working Circle | 20 th | 0.00 | 0.00 | 0.00 | – |
| | 30 th | 0.00 | 0.00 | 0.00 | |
| | 50 th | 0.00 | 0.00 | 0.00 | |
| Riverain working circle | 5 th | 0.00 | 0.00 | 0.00 | – |
| | 7 th | 0.00 | 0.00 | 0.00 | |
| | 10 th | 119.00 | 0.00 | 119.00 | |
| | 15 th | 0.00 | 0.00 | 0.00 | |
| | 25 th | 114.50 | 0.00 | 114.50 | |
| | 35 th | 50.50 | 0.00 | 50.50 | |
| TOTAL FOR NORTH BENGAL | 5 th | 0.00 | 0.00 | 0.00 | – |
| | 7 th | 275.83 | 0.00 | 275.83 | |
| | 10 th | 366.16 | 0.00 | 366.16 | |
| | 15 th | 0.00 | 0.00 | 0.00 | |
| | 20 th | 0.00 | 0.00 | 0.00 | |
| | 25 th | 238.61 | 0.00 | 238.61 | |
| | 30 th | 0.00 | 0.00 | 0.00 | |
| | 35 th | 157.38 | 0.00 | 157.38 | |
| | 40 th | 0.00 | 0.00 | 0.00 | |
| | 50 th | 0.00 | 0.00 | 0.00 | |
| | Total | 1037.98 | 0.00 | 1037.98 | – |



9.1.5 (b) (ii) Summary of Last Year Thinning (2019-20 ATR) SOUTH BENGAL

| Operations prescribed in the Working Plan/Working Scheme | Division | Thinning Operation 2019-20 | | | | |
|--|-------------|----------------------------|-------------------------|---------------------|-----------------------|---------|
| | | Thinning Type | Physical Target (in Ha) | Achievement (in Ha) | Shortfall if Any (Ha) | Remarks |
| Sal Coppice Working Circle | WP South-I | 7/4 th yr/RDF | 3761.00 | 335.00 | 3426.00 | – |
| Sal Coppice Working Circle | WP South-II | 7 th year | 1604.00 | 30.00 | 1574.00 | |
| TOTAL FOR SOUTH BENGAL | | | 5365.00 | 365.00 | 5000.00 | – |

9.1.5 (b) (iii) Summary of Last Year Thinning (2019-20 ATR) STATE TOTAL

| Operations prescribed in the Working Plan/Working Scheme | Thinning Operation 2019-20 | | | | |
|--|----------------------------|-------------------------|---------------------|-----------------------|---------|
| | Thinning Type | Physical Target (in Ha) | Achievement (in Ha) | Shortfall if Any (Ha) | Remarks |
| Total for State | 4 th yr/RDF | 5365.00 | 365.00 | 5000.00 | – |
| | 5 th | 0.00 | 0.00 | 0.00 | |
| | 7 th | 275.83 | 0.00 | 275.83 | |
| | 10 th | 366.16 | 0.00 | 366.16 | |
| | 15 th | 0.00 | 0.00 | 0.00 | |
| | 20 th | 0.00 | 0.00 | 0.00 | |
| | 25 th | 238.61 | 0.00 | 238.61 | |
| | 30 th | 0.00 | 0.00 | 0.00 | |
| | 35 th | 157.38 | 0.00 | 157.38 | |
| | 40 th | 0.00 | 0.00 | 0.00 | |
| | 50 th | 0.00 | 0.00 | 0.00 | |
| GRAND TOTAL FOR STATE | | 6402.98 | 365.00 | 6037.98 | |

9.1.5 (c) Summary of Proposed Felling & Regeneration for the year (2021-22) State Total

| Operations prescribed in the Working Plan/Working Scheme | | Felling Target (2021-22) in ha | Regeneration (in Ha) | | | Remarks |
|--|--------------|--------------------------------|---|--|-----------------------|---------------------------|
| | | | Target (Felled Coupes in 2020-21) in ha | Cost per Hectare for regeneration ₹/ha | Funds Required in ₹ | |
| Sal Working Circle | North Bengal | 354.14 | 0 | 97030 | 3,43,62,204.20 | – |
| Sal Coppice Working Circle | North Bengal | 0 | 0 | 0 | 0 | Coppice regeneration only |
| | S Bengal-I | 1626 | 1598.5 | 0 | 0 | |
| | S Bengal-II | 1712.2 | 1659 | 0 | 0 | |
| | Total | 3338.2 | 3257.5 | 0 | 0 | |



| Operations prescribed in the Working Plan/ Working Scheme | | Felling Target (2021-22) in ha | Regeneration (in Ha) | | | Remarks |
|---|--------------|--------------------------------------|---|---|---------------------------|---------|
| | | | Target (Felled Coupes in 2020-21) in ha | Cost per Hectare for regeneration ₹/ha | Funds Required in ₹ | |
| Development Working Circle | North Bengal | 0 | 0 | 0 | 0 | – |
| | S Bengal-I | 573 | 653.5 | 97030 | 5,55,98,190 | – |
| | S Bengal-II | 2856.12 | 3004 | 97030 | 27,71,29,324 | – |
| | Total | 3429.12 | 3657.5 | 97030 | 33,27,27,514 | – |
| Miscellaneous Species Working Circle | North Bengal | 100.51 | 9.9 | 97030 | 97,52,485 | – |
| Conifer & Misc Species Dev Working Circle | North Bengal | 0 | 0 | 0 | 0 | – |
| Broad Leaf Endemic Spec Dev Working Circle | North Bengal | 0 | 0 | 0 | 0 | – |
| Eco Tourism & Eco Dev Working Circle | North Bengal | 0 | 0 | 0 | 0 | – |
| GRAND TOTAL | – | 7,121.46 | 6924.9 | – | 36,70,89,717.80 | – |

9.1.5 (d) Summary of Proposed Thinning (2021-22) ATR STATE TOTAL

| Operations prescribed in the Working Plan/Working Scheme | Thinning Operation 2021-22 | |
|--|-------------------------------------|-------------------------|
| | Thinning Type | Physical Target (in Ha) |
| Sal Working Circle | 5 th | 59.71 |
| | 10 th | 56.82 |
| | 15 th | – |
| | 25 th | 81.92 |
| | 35 th | 100.08 |
| Sal Coppice Working Circle | Mechanical Thinning | – |
| | M/s Cutting or 4 th year | – |
| | RDF | – |
| | 7 th | – |
| Miscellaneous Species Working Circle | 5 th | 4.04 |
| | 10 th | 108.03 |
| | 15 th | – |
| | 25 th | 60.08 |
| | 35 th | 16.00 |



| Operations prescribed in the Working Plan/Working Scheme | Thinning Operation 2021-22 | |
|--|-----------------------------------|-------------------------|
| | Thinning Type | Physical Target (in Ha) |
| Conifer & Miscellaneous Species Development Working Circle | 20 th | — |
| | 30 th | — |
| | 40 th | — |
| Broad Leaved Endemic Species Development Working Circle | 20 th | — |
| | 30 th | — |
| | 50 th | — |
| Eco Tourism & Eco Development Working Circle | 20 th | — |
| | 30 th | — |
| | 50 th | — |
| Riverain | 5 th | — |
| | 10 th | 175.60 |
| | 25 th | 235.19 |
| | 35 th | 101.27 |
| Grand Total | 5 th | 63.75 |
| | 7 th | — |
| | 10 th | 340.45 |
| | 15 th | — |
| | 20 th | — |
| | 25 th | 377.19 |
| | 30 th | — |
| | 35 th | 217.35 |
| | 40 th | — |
| | 50 th | — |
| Total for North Bengal | — | 998.74 |
| Thinning for South Bengal | — | — |
| WB South-I | 2 nd / 7 th | 683 |
| WB South-II | 4 th / 7 th | 1268.00 |
| Total for South Bengal | — | 1951.00 |
| TOTAL FOR STATE or STATE ABSTRACT | — | 2949.74 |





9.1.5 (e) (i) Felling Report From Working Plan (North) Division

| Felling Report of 2019-20 of North Bengal | | | | | | | | | | | | | | |
|---|---------------------------|-----------------------|----------------------|--------------------------------|-----------------------|--------------------------------------|-----------------------|----------------------|--------------------------------|-----------------------|---------------------------|-----------------------|----------------------|---|
| Division | Sal Working Circle | | | | | Miscellaneous Species Working Circle | | | | | C & MSD Working Circle | | | |
| | Physical Target (2019-20) | Achievement (2019-20) | Short fall (2019-20) | Regeneration in Ha. | | Physical Target (2019-20) | Achievement (2019-20) | Short fall (2019-20) | Regeneration in Ha. | | Physical Target (2019-20) | Achievement (2019-20) | Short fall (2019-20) | |
| | | | | Target (Felled Coupes 2019-20) | Achievement (2020-21) | | | | Target (Felled Coupes 2019-20) | Achievement (2020-21) | | | | |
| Baikunthapur | - | - | - | - | - | 28.57 | 0.00 | 28.57 | - | - | - | - | - | - |
| Cooch Behar | - | - | - | - | - | 8.03 | 8.03 | 0.00 | 8.03 | 8.03 | - | - | - | - |
| Jaldapara WLS | 22 | 22.00 | 0 | 22.00 | 22.00 | 19.14 | 0 | 19.14 | - | - | - | - | - | - |
| * Jalpaiguri | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Kalimpong | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total | 22.00 | 22.00 | 0.00 | 22.00 | 22.00 | 55.74 | 8.03 | 47.71 | 8.03 | 8.03 | - | - | - | - |

| Division | BLES Working Circle | | | | | ECO Tourism & Eco Dev Working Circle | | | | |
|--------------|---------------------------|-----------------------|----------------------|--------------------------------|-----------------------|--------------------------------------|-----------------------|----------------------|--------------------------------|-----------------------|
| | Physical Target (2019-20) | Achievement (2019-20) | Short fall (2019-20) | Regeneration in Ha. | | Physical Target (2019-20) | Achievement (2019-20) | Short fall (2019-20) | Regeneration in Ha. | |
| | | | | Target (Felled Coupes 2019-20) | Achievement (2020-21) | | | | Target (Felled Coupes 2019-20) | Achievement (2020-21) |
| **Darjeeling | - | - | - | - | - | - | - | - | - | - |
| **Kurseong | - | - | - | - | - | - | - | - | - | - |
| **Kalimpong | - | - | - | - | - | - | - | - | - | - |
| Total | - | - | - | - | - | - | - | - | - | - |

* Working Plan not approved

** Working Plan expired

9.1.5 (e) (ii) Felling Report From Working Plan (South I & II) Divisions

| Felling Report of 2019-20 South Bengal of South - I Division | | | | | | | | | | | |
|--|------------|----------------------------|---------------------|--------------------|--------------------------------|-----------------------|----------------------------|---------------------|--------------------|--------------------------------|-----------------------|
| District | Division | Sal Coppice Working Circle | | | | | Development Working Circle | | | | |
| | | Physical Target 2019-20 | Achievement 2019-20 | Short fall 2019-20 | Regeneration in Ha. | | Physical Target 2019-20 | Achievement 2019-20 | Short fall 2019-20 | Regeneration in Ha. | |
| | | | | | Target (Felled Coupes 2019-20) | Achievement (2020-21) | | | | Target (Felled Coupes 2019-20) | Achievement (2020-21) |
| | | | | | | | | | | | |
| Jhargram | Jhargram | 735.5 | 560 | 175.5 | 560 | 560 | 148 | 131 | 17 | 131 | 131 |
| Paschim Medinipur | Rupnarayan | 520 | 420 | 100 | 420 | 420 | 206 | 137 | 69 | 137 | 137 |
| | Medinipur | 695 | 495 | 200 | 495 | 495 | 438.45 | 345 | 93.45 | 345 | 345 |
| | Kharagpur | 169 | 138 | 31 | 138 | 138 | 63 | 50 | 13 | 50 | 50 |
| Total for South I | | 2119.5 | 1613.0 | 506.5 | 1613.0 | 1613.0 | 855.45 | 663.0 | 192.45 | 663.0 | 663.0 |

| Felling Report of 2019-20 South Bengal of South - II Division | | | | | | | | | | | |
|---|--------------------|----------------------------|---------------------|--------------------|--------------------------------|----------------------------|-------------------------|---------------------|--------------------|--------------------------------|-----------------------|
| District | Division | Sal Coppice Working Circle | | | | Development Working Circle | | | | | |
| | | Physical Target 2019-20 | Achievement 2019-20 | Short fall 2019-20 | Regeneration in Ha. | | Physical Target 2019-20 | Achievement 2019-20 | Short fall 2019-20 | Regeneration in Ha. | |
| | | | | | Target (Felled Coupes 2019-20) | Achievement (2020-21) | | | | Target (Felled Coupes 2019-20) | Achievement (2020-21) |
| Bankura | Bankura(North) | 490.999 | 436.50 | 54.499 | 436.50 | 436.50 | 344.5 | 242.80 | 101.70 | 242.80 | 242.80 |
| | Bankura(South) | 457 | 405.00 | 52.00 | 405.00 | 405.00 | 756 | 581.00 | 175.00 | 581.00 | 581.00 |
| | Panchet | 450 | 395.00 | 55.00 | 395.00 | 395.00 | 415 | 315.00 | 100.00 | 315.00 | 315.00 |
| | Purulia | 157 | 71.72 | 85.28 | 71.72 | 71.72 | 120 | 2950 | 90.50 | 2950 | 2950 |
| Purulia | Kangsabati (North) | 10 | 0.00 | 10.00 | 0.00 | 0.00 | 673 | 287.00 | 386.00 | 287.00 | 287.00 |
| | Kangsabati (South) | 179 | 150.00 | 29.00 | 150.00 | 150.00 | 140 | 30.00 | 110.00 | 30.00 | 30.00 |
| Burdwan | Burdwan | 90 | 60.00 | 30.00 | 60.00 | 60.00 | 193 | 178.00 | 15.00 | 178.00 | 178.00 |
| | Durgapur | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 90 | 60.00 | 30.00 | 60.00 | 60.00 |
| Birbhum | Birbhum | 20 | 15.00 | 5.00 | 15.00 | 15.00 | 140 | 133.00 | 7.00 | 133.00 | 133.00 |
| Total for South II | | 1853.999 | 1,533.22 | 320.779 | 1,533.22 | 1,533.22 | 2,871.50 | 1856.3 | 1015.2 | 1856.3 | 1856.3 |
| Grand Total for South I & II | | 3973.499 | 3,146.22 | 827.279 | 3,146.22 | 3,146.22 | 3,726.95 | 2519.3 | 1207.65 | 2,519.30 | 2,519.30 |





9.1.5 (f) (i) Proposed Felling Report From Working Plan (North) Division

| Division | Proposed Felling for 2021-22 for North Bengal | | | | | | | | | |
|----------------|---|-----------------------------------|-------------------------------|---------------|----------------------------|--------------------------------------|-------------------------------|---------------|----------------------------|-----------------------------------|
| | Sal Working Circle | | | | | Miscellaneous Species Working Circle | | | | |
| | Regeneration in Ha. | | | | | Regeneration in Ha. | | | | |
| | Felling Target (2021-2022) | Target (Felling Coupes 2020-2021) | Cost per Ha. for regeneration | Fund required | Felling Target (2021-2022) | Target (Felling Coupes 2020-2021) | Cost per Ha. for regeneration | Fund required | Felling Target (2021-2022) | Target (Felling Coupes 2020-2021) |
| *Baikunthapur | - | - | - | - | - | - | - | - | - | - |
| *Jaldapara WLS | - | - | - | - | - | - | - | - | - | - |
| Jalpaiguri | 344.34 | - | 97030 | 33411310.2 | 100.51 | - | 97030 | 9752485.3 | - | - |
| Cooch Behar | 9.8 | - | 97030 | 9,50,894.00 | 0 | 9.9 | - | - | - | - |
| *Kalimpong | - | - | - | - | - | - | - | - | - | - |
| Grand Total | 354.14 | 0 | 97030 | 34362204.2 | 100.51 | 9.9 | - | 9752485.3 | - | - |

| Division | B L E S D Working Circle | | | | | ECO Tourism & Eco Dev Working Circle | | | | |
|-------------|----------------------------|-----------------------------------|-------------------------------|---------------|----------------------------|--------------------------------------|-------------------------------|---------------|----------------------------|-----------------------------------|
| | Regeneration in Ha. | | | | | Regeneration in Ha. | | | | |
| | Felling Target (2021-2022) | Target (Felling Coupes 2020-2021) | Cost per Ha. for regeneration | Fund required | Felling Target (2021-2022) | Target (Felling Coupes 2020-2021) | Cost per Ha. for regeneration | Fund required | Felling Target (2021-2022) | Target (Felling Coupes 2020-2021) |
| | Felling Target (2021-2022) | Target (Felling Coupes 2020-2021) | Cost per Ha. for regeneration | Fund required | Felling Target (2021-2022) | Target (Felling Coupes 2020-2021) | Cost per Ha. for regeneration | Fund required | Felling Target (2021-2022) | Target (Felling Coupes 2020-2021) |
| *Darjeeling | - | - | - | - | - | - | - | - | - | - |
| *Kurseong | - | - | - | - | - | - | - | - | - | - |
| *Kalimpong | - | - | - | - | - | - | - | - | - | - |
| Grand Total | - | - | - | - | - | - | - | - | - | - |

Working Plan expired, PWPR will be finalised shortly

* Working Plan expired

9.1.5 (f) (ii) Proposed Felling Report From Working Plan (South I & II) Divisions

| Proposed Felling Report for 2021-22 for South Bengal | | | | | | | | |
|--|-------------------------------|--|---|---------------|-------------------------------|--|-------------------------------------|---------------|
| Division | Sal Coppice Working Circle | | | | Development Working Circle | | | |
| | Regeneration in Ha. | | | | Regeneration in Ha. | | | |
| | Felling Target (2021-2022) | Target (Felled Coupes 2020-2021) | Cost per ha. For Regeneration | Fund required | Felling Target (2021-2022) | Target (Felled Coupes 2020-2021) | Cost per ha. For Regeneration | Fund required |
| | | | | | | | | |
| Jhargram | 498 | 541.5 | | | 128 | 81.5 | 85,631 | 1,09,60,768 |
| Rupnarayan | 387 | 278 | Coppice Regeneration, therefore not Applicable | | 140 | 122 | 85,631 | 1,19,88,340 |
| Medinipur | 588 | 619 | | | 266 | 354 | 85,631 | 2,27,77,846 |
| Khargpur | 153 | 160 | | | 39 | 75 | 85,631 | 33,39,609 |
| Purba Medinipur | 0 | 0 | - | - | 0 | 21 | - | - |
| Total for South I | 1626 | 1598.5 | - | - | 573 | 653.5 | 85,631 | 4,90,66,563 |

| Division | Sal Coppice Working Circle | | | | Development Working Circle | | | |
|------------------------------|-------------------------------|--|---|------------------|-------------------------------|---------------------------------------|-------------------------------------|-----------------|
| | Regeneration in Ha. | | | | Regeneration in Ha. | | | |
| | Felling Target (2021-2022) | Target (Felled Coupes 2020-2021) | Cost per ha. For Regeneration | Fund required | Felling Target (2021-2022) | Target(Felled Coupes 2020-2021) | Cost per ha. For Regeneration | Fund required |
| Bankura(North) | 695 | 584.000 | | | 545 | 589.00 | 85,631 | 4,66,68,895 |
| Bankura(South) | 306 | 351.000 | | | 373 | 552.00 | 85,631 | 3,19,40,363 |
| Panchet | 431 | 399.000 | | | 461 | 409.00 | 85,631 | 3,94,75,891 |
| Purulia | 0 | 10.000 | | | 70 | 125.00 | 85,631 | 59,94,170 |
| Kangsabati (North) | 0 | 0.000 | | | 604 | 526.00 | 85,631 | 5,17,21,124 |
| Kangsabati (South) | 65 | 195.000 | | | 114.25 | 104.00 | 85,631 | 97,83,342 |
| Burdwan | 210.2 | 105.000 | | | 342 | 310.00 | 85,631 | 2,92,85,802 |
| Durgapur | 0 | 0.000 | Coppice Regeneration, therefore not Applicable | | 231.87 | 92.00 | 85,631 | 1,98,55,260 |
| Birbhum | 5 | 15.000 | | | 115 | 297.00 | 85,631 | 98,47,565 |
| Total for South II | 1712.2 | 1659 | - | - | 2856.12 | 3,004.00 | 85,631 | 24,45,72,411.72 |
| Grand total for South Bengal | 3338.2 | 3257.5 | - | - | 3429.12 | 3657.50 | 85,631 | 29,36,38,974.72 |





9.1.5 (g) (i) Thinning Report From Working Plan (North) Division

| Thinning Report Of 2019-20 North Bengal | | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|-----------------|-------------|------------|------------------|-------------|------------|-----------------|----------------|------------|-----------------|-------------|-------------|-----------------|-------------|------------|----------------------------------|-------------|------------|---|---------|
| Division | Sal Working Circle | | | | Miscellaneous WC | | | | Sal Coppice WC | | | | Riverian WC | | | | ECO Tourism & ECO Development WC | | | | Remarks |
| | Type of Thinning | Physical Target | Achievement | Short fall | Physical Target | Achievement | Short fall | Physical Target | Achievement | Short fall | Physical Target | Achievement | Short fall | Physical Target | Achievement | Short fall | Physical Target | Achievement | Short fall | | |
| Baikunthapur | 5 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | No financial sanction was received for carry out thinning operation | |
| | 7 th | - | - | - | - | - | - | - | 275.83 | - | - | 275.83 | - | - | - | - | - | - | - | | |
| | 10 th | 13.1 | - | 13.1 | 3.00 | - | 3.00 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | 25 th | 30.11 | - | 30.11 | 19.00 | - | 19.00 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | 35 th | - | - | - | - | 60.95 | - | 60.95 | - | - | - | - | - | - | 32.00 | - | - | - | - | 32.00 | |
| Jaldapara WLS | 5 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | No financial sanction was received for carry out thinning operation | |
| | 10 th | 220.00 | - | 220.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | No financial sanction was received for carry out thinning operation | |
| | 25 th | - | - | - | - | 70.00 | - | 70.00 | - | - | - | - | - | - | - | - | - | - | - | | |
| | 35 th | 37.93 | - | 37.93 | 8.00 | - | 8.00 | - | - | - | - | - | - | - | - | - | - | - | - | | |
| *Jalpaiguri | 5 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Working Plan not approved | |
| | 10 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | 15 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | 25 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| | 35 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | |
| Coochbehar | 5 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | No financial sanction was received for carry out thinning operation | |
| | 10 th | - | - | - | - | 11.06 | - | 11.06 | - | - | - | - | - | 119.00 | - | - | - | - | - | 119.00 | |
| | 25 th | - | - | - | - | 5.00 | - | 5.00 | - | - | - | - | - | 114.50 | - | - | - | - | - | 114.50 | |
| | 35 th | - | - | - | - | - | - | - | - | - | - | - | - | 18.50 | - | - | - | - | - | 18.50 | |
| Grand Total | 5 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 7 th | - | - | - | - | - | - | - | 275.83 | - | - | 275.83 | - | - | - | - | - | - | - | - | |
| | 10 th | 233.10 | - | 233.10 | 14.06 | - | 14.06 | - | - | - | - | - | - | 119.00 | - | - | - | - | - | 119.00 | |
| | 15 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| | 25 th | 30.11 | - | 30.11 | 94.00 | - | 94.00 | - | - | - | - | - | - | 114.50 | - | - | - | - | - | 114.50 | |
| Total | 35 th | 37.93 | - | 37.93 | 68.95 | - | 68.95 | - | - | - | - | - | 50.50 | - | - | - | - | - | - | 50.50 | |
| | | 301.14 | - | 301.14 | 177.01 | - | 177.01 | - | 275.83 | - | 275.83 | - | 284 | - | 284 | - | 284 | - | 284 | - | |

| Thinning Report Of 2019-20 North Bengal | | | | | | | | | | | | | | | | | | | | |
|---|--------------------|-----------------|-------------|------------|-----------------|-------------|-----------|-----------------|-------------|------------|-----------------|-------------|----------------------------------|-----------------|-------------|------------|-------------|----------------------|--|---------|
| Division | Sal Working Circle | | | | C & MSDWC | | | | BLES DW C | | | | ECO Tourism & ECO Development WC | | | | Riverian WC | | | Remarks |
| | Type of Thinning | Physical Target | Achievement | Short fall | Physical Target | Achievement | Shortfall | Physical Target | Achievement | Short fall | Physical Target | Achievement | Shortfall | Physical Target | Achievement | Short fall | | | | |
| ***Darjeeling | 20 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Working Plan expired | | |
| | 30 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 50 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| ***Kurseong | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 20 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Working Plan expired | | |
| | 30 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| ***Kalimpong | 50 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 20 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| ***Kalimpong | 30 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Working Plan expired | | |
| | 40 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 50 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Grand Total | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 20 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Thinning not done | | |
| | 30 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Grand Total | 40 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| | 50 th | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| Total | | 0 | - | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 | 0 | 0 | - | 0 | - | 0 | | |

*Working Plan not approved

**Working Plan expired



9.1.5 (g) (ii) Thinning Report From Working Plan (South I & II) Divisions

| Thinning Report Of 2019-20 South Bengal | | | | |
|---|----------------------------|-----------------------------|------------------------|-----------------------|
| Division | Type of Thinning | Sal Coppice Working Circle | | |
| | | Physical Target (in Ha.) | Achievment (in Ha.) | Shortfall (in Ha.) |
| Jhargram | 7/4 th yr/RDF | 740 | 0 | 740 |
| Rupnarayan | 7/2 th yr/RDF | 386 | 0 | 386 |
| Medinipur | 7/2-4 th yr/RDF | 2540 | 335 | 2205 |
| Kharagpur | 7 th year | 95 | 0 | 95 |
| | 4 th year | 0 | 0 | 0 |
| Total for South I | | 3761 | 335 | 3426 |

| Division | Type of Thinning (Whether 4 th year or 7 th year) | Sal Coppice Working Circle | | |
|-------------------------------------|---|-----------------------------|------------------------|-----------------------|
| | | Physical Target (in Ha.) | Achievment (in Ha.) | Shortfall (in Ha.) |
| Bankura(North) | 4 th year | 0.00 | 0.00 | 0.00 |
| | 7 th year | 105.00 | 0.00 | 105.00 |
| Bankura(South) | 4 th year | 50.00 | 30.00 | 20.00 |
| | 7 th year | 313.00 | 0.00 | 313.00 |
| Panchet | 4 th year | 492.00 | 0.00 | 492.00 |
| | 7 th year | 78.00 | 0.00 | 78.00 |
| Purulia | 4 th year | 0.00 | 0.00 | 0.00 |
| | 7 th year | 342.00 | 0.00 | 342.00 |
| Kangsabati (North) | 4 th year | 0.00 | 0.00 | 0.00 |
| | 7 th year | 0.00 | 0.00 | 0.00 |
| Kangsabati (South) | 4 th year | 0.00 | 0.00 | 0.00 |
| | 7 th year | 0.00 | 0.00 | 0.00 |
| Burdwan | 4 th year | 224.00 | 0.00 | 224.00 |
| | 7 th year | 0.00 | 0.00 | 0.00 |
| Durgapur | 4 th year | 0.00 | 0.00 | 0.00 |
| | 7 th year | 0.00 | 0.00 | 0.00 |
| Birbhum | 4 th year | 0.00 | 0.00 | 0.00 |
| | 7 th year | 0.00 | 0.00 | 0.00 |
| Total for South II | | 1604 | 30.00 | 1574 |
| Grand Total for South Bengal | | 5365 | 365 | 5000 |



9.1.5 (h) (i) Proposed Thinning Report From Working Plan (North) Division

| Proposed Thinning Report for 2020-21 for North Bengal | | | | | | | | |
|---|------------------|--|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|---------------------------------|
| Year-2020-21 | | Sal WC | Misc Spp. WC | Riverain | Sal Coppice | C & MSD WC | BLESD WC | ECO Touris & Eco Development WC |
| Division | Type of Thinning | Physical Target (in Ha) | Physical Target (in Ha) | Physical Target (in Ha) | Physical Target (in Ha) | Physical Target (in Ha) | Physical Target (in Ha) | Physical Target (in Ha) |
| *Baikunthapur | 7 th | – | – | – | – | – | – | – |
| | 10 th | – | – | – | – | – | – | – |
| | 25 th | – | – | – | – | – | – | – |
| | 35 th | – | – | – | – | – | – | – |
| *Jaldapara WLS | 5 th | – | – | – | – | – | – | – |
| | 10 th | – | – | – | – | – | – | – |
| | 25 th | – | – | – | – | – | – | – |
| | 35 th | – | – | – | – | – | – | – |
| Jalpaiguri | 5 th | 59.71 | 4.04 | – | – | – | – | – |
| | 10 th | 56.82 | 62.28 | 114.40 | – | – | – | – |
| | 25 th | 81.92 | 60.08 | – | – | – | – | – |
| | 35 th | 100.08 | 16.00 | 69.00 | – | – | – | – |
| Cooch Behar | 5 th | – | – | – | – | – | – | – |
| | 10 th | – | 45.75 | 61.20 | – | – | – | – |
| | 25 th | – | – | 235.19 | – | – | – | – |
| | 35 th | – | – | 32.27 | – | – | – | – |
| Darjeeling | 20 th | Working Plan expired, PWPR will be finalised shortly | | | | | | |
| | 30 th | | | | | | | |
| | 50 th | | | | | | | |
| Kurseong | 20 th | Working Plan expired, PWPR will be finalised shortly | | | | | | |
| | 30 th | | | | | | | |
| | 50 th | | | | | | | |
| Kalimpong | 20 th | Working Plan expired, PWPR will be finalised shortly | | | | | | |
| | 30 th | | | | | | | |
| | 40 th | | | | | | | |
| | 50 th | | | | | | | |
| Total | | 298.53 | 188.15 | 512.06 | – | – | – | – |
| Total | 5 th | 59.71 | 4.04 | – | – | – | – | – |
| | 7 th | – | – | – | – | – | – | – |
| | 10 th | 56.82 | 108.03 | 175.60 | – | – | – | – |
| | 15 th | – | – | – | – | – | – | – |
| | 20 th | – | – | – | – | – | – | – |
| | 25 th | 81.92 | 60.08 | 235.19 | – | – | – | – |
| | 30 th | – | – | – | – | – | – | – |
| | 35 th | 100.08 | 16.00 | 101.27 | – | – | – | – |
| | 40 th | – | – | – | – | – | – | – |
| | 50 th | – | – | – | – | – | – | – |
| Total | | 298.53 | 184.11 | 512.06 | – | – | – | – |

* Working Plan Expired



9.1.5 (h) (ii) Proposed Thinning Report From Working Plan (South I & II) Divisions

| Proposed Thinning Report for 2021-22 for South Bengal | | | |
|---|---|----------------------------|----------------------------|
| Division | Type of Thinning | Sal Coppice Working Circle | Development Working Circle |
| | | Physical Target (in Ha.) | Physical Target (in Ha.) |
| Jhargram | Mechanical Thinning | 180 | 0 |
| Rupnarayan | 2 nd yr/7 th yr/RDF | 0 | 0 |
| Medinipur | 2-4 yrs (M.S.Cutting) | 313 | 0 |
| | 7 th yr Thinning | 30 | 0 |
| | RDF | 30 | 0 |
| Kharagpur | 7 th yr/RDF | 130 | 0 |
| Purba Medinipur | | 0 | 0 |
| Total for South I | | 683 | 0 |
| Bankura(North) | 4 th year | 365.00 | 0 |
| | 7 th year | 115.00 | 0 |
| Bankura(South) | 4 th year | 75.00 | 0 |
| | 6 th year | 55.00 | 0 |
| | 7 th year | 98.00 | 0 |
| | 8 th year | 75.00 | 0 |
| | 9 th year | 15.00 | 0 |
| Panchet | 4 th year | 0 | 0 |
| | 7 th year | 0 | 0 |
| Purulia | 4 th year | 0 | 0 |
| | 7 th year | 0 | 0 |
| Kangsabati (North) | 4 th year | 250 | 0 |
| | RDF | 220 | 0 |
| | 7 th year | 0 | 0 |
| Kangsabati (South) | 4 th year | 0 | 0 |
| | 7 th year | 0 | 0 |
| Burdwan | 4 th year | 0 | 0 |
| | 7 th year | 0 | 0 |
| Durgapur | 4 th year | 0 | 0 |
| | 7 th year | 0 | 0 |
| Birbhum | 4 th year | 0 | 0 |
| | 7 th year | 0 | 0 |
| Total for South II | | 1268 | 0 |
| Grand Total for South Bengal | | 1951 | 0 |



9.2 (a) Report on Yield during 2019-20 for North Bengal

| Division | CFC Felling Coupe Yield in M³ | | | | FW (Fig in stack) | Thinning outturn M³ | | | | FW (Fig in stack) | Illicit Felling Timber in M³ | | | | CD Operation in M³ | | | | FW(Fig in stack) |
|--------------|-------------------------------|-----------------|-----------------|------------|-------------------------|---------------------|-----|------|-------|-------------------------|------------------------------|---------------|----------------|-----------|--------------------|---------------|----------------|------------|---------------------|
| | Sal | Teak | Misc. | | | Type of thinning | Sal | Teak | Misc. | | Sal | Teak | Misc. | | Sal | Teak | Misc. | | |
| Baikunthapur | — | — | — | — | — | — | — | — | — | — | 76.665 | 20.792 | 4.365 | — | 1235.43 | — | 38.569 | — | — |
| JaldaparaWLS | 1.537 | 664.529 | 453.789 | 45 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Jalpaiguri | — | — | — | — | — | — | — | — | — | — | 343.825 | 295.463 | 42.271 | — | — | — | — | — | — |
| Cooch Behar | — | 1165.42 | 210.035 | 14 | — | — | — | — | — | — | 7.864 | 47.301 | 58.98 | — | — | 11.968 | 46.485 | — | — |
| Darjeeling | 138 | 484 | 307 | 200 | — | — | — | — | — | — | — | — | — | — | 0.765 | 1.384 | 125.701 | 200 | — |
| Kurseong | — | — | — | — | — | — | — | — | — | — | 72.499 | 109.838 | 207.106 | 91 | 39.415 | 13.494 | 1.082 | 2 | — |
| Kalimpong | 245.918 | 59.49 | 1303.62 | 101 | — | — | — | — | — | — | 7.006 | 24.816 | 36.217 | — | 11.617 | — | 40.25 | — | — |
| Total | 385.455 | 2373.439 | 2274.444 | 360 | — | — | — | — | — | — | 507.859 | 498.21 | 377.398 | 91 | 1287.23 | 26.846 | 252.087 | 202 | — |
| | | | 5033.338 | | | | | | | | | | 1383.467 | | | | 1566.161 | | |

9.2 (b) (i) Report on Yield in 2019-20 South Bengal-I (Yield-I) abstract

| Division | Area felled in Ha | | Sal Pole | | | | | | | | | | Pit pole | | | | | | | | | | Timber in cum | | | | Firewood in cum | | | |
|--|----------------------|-------|----------|----------|---------|----------|--------|----------|--------|-----------|--------|----------|----------|----------|-------|----------|--------|-----------|---------|----------|----------|----------|---------------|-----------|-----|------|-----------------|--|--|--|
| | Sal | Pltn. | < 40cm | | 41-60cm | | > 61cm | | Total | | < 40cm | | > 40cm | | >61cm | | Total | | Sal | Pltn | Total | Sal | Pltn | Total | Sal | Pltn | Total | | | |
| | | | Nos | Vol (m3) | Nos | Vol (m3) | Nos | Vol (m3) | Nos | Vol (m3) | Nos | Vol (m3) | Nos | Vol (m3) | Nos | Vol (m3) | Nos | Vol (m3) | | | | | | | | | | | | |
| Jhargram | 288 | 96 | 51682 | 1343.732 | 67578 | 5271.084 | 10721 | 1651.034 | 129981 | 8265.85 | 22794 | 592.644 | 20341 | 1586.598 | 2077 | 319.858 | 45212 | 2499.1 | 641.111 | 758.83 | 1399.941 | 941.2921 | 1778.644 | 11191.565 | | | | | | |
| MFCD | 272 | 35 | 78810 | 2182.783 | 70569 | 4599.327 | 10401 | 1521.503 | 159780 | 8303.613 | 1491 | 41.611 | 3876 | 276.368 | 1548 | 209.233 | 6915 | 527.212 | 319.37 | 105.3 | 424.67 | 6010.525 | 174.524 | 6185.049 | | | | | | |
| Total: | 560 | 131 | 130492 | 3526.515 | 138147 | 9870.411 | 21122 | 3172.54 | 289761 | 16569.46 | 24285 | 634.255 | 24217 | 1862.97 | 3625 | 529.091 | 52127 | 3026.312 | 960.481 | 864.13 | 1824.611 | 15423.45 | 1953.17 | 17376.614 | | | | | | |
| Rupnarayan | 140 | 97 | 35503 | 590.84 | 42010 | 360.30 | 13485 | 2769.26 | 90998 | 3720.40 | 31759 | 529.34 | 17230 | 1476.56 | 3475 | 713.62 | 52464 | 2719.52 | 604.59 | 173.798 | 778.388 | 1722 | 295.92 | 2017.92 | | | | | | |
| WBFD | 280 | 40 | 45228 | 1766.29 | 83299 | 6835.372 | 17499 | 2998.468 | 146026 | 11600.13 | 24298 | 447.058 | 8277 | 519.335 | 1601 | 103.869 | 34176 | 1070.262 | 574.58 | 12.720 | 587.300 | 1734.148 | 70.233 | 1804.381 | | | | | | |
| Total: | 420 | 137 | 80731 | 2357.13 | 125309 | 7195.67 | 30984 | 5767.73 | 237024 | 15320.53 | 56057 | 976.398 | 25507 | 1995.9 | 5076 | 817.489 | 86640 | 3789.782 | 1179.17 | 186.518 | 1365.688 | 3456.148 | 366.153 | 3822.301 | | | | | | |
| Medinipur | 247 | 171 | 65589 | 2529.884 | 78383 | 6170.553 | 12115 | 903.9 | 156087 | 9604.337 | 87606 | 2807.715 | 38007 | 2740.576 | 5430 | 134.632 | 131043 | 5682.923 | 381.807 | 533.385 | 915.192 | 7240.765 | 678.521 | 7919.286 | | | | | | |
| Medinipur Forest Corporation Division | 248 | 174 | 32893 | 1267.546 | 42775 | 3353.762 | 10280 | 1747.634 | 85948 | 6368.942 | 111411 | 3570.65 | 17385 | 1253.58 | 2200 | 317.71 | 130996 | 5141.940 | 203.776 | 80.463 | 284.239 | 5845.078 | 604.333 | 6449.411 | | | | | | |
| Total: | 495 | 345 | 98482 | 3797.43 | 121158 | 9524.315 | 22395 | 2651.53 | 242035 | 15973.279 | 199017 | 6378.365 | 55392 | 3994.16 | 7630 | 452.342 | 262039 | 10824.863 | 585.583 | 613.848 | 1199.431 | 13085.84 | 1282.85 | 14368.697 | | | | | | |
| Kharagpur | 94 | 5 | 6336 | 129.888 | 14995 | 1432.022 | 2099 | 450.171 | 23430 | 2012.081 | 7789 | 159.674 | 1109 | 105.799 | 0 | 0 | 8898 | 265.473 | 104.32 | 0.000 | 104.320 | 3412.36 | 0.000 | 3412.360 | | | | | | |
| MFCD | 44 | 45 | 4215 | 79.66 | 9558 | 681.92 | 0 | 0 | 13773 | 761.58 | 15112 | 285.62 | 8009 | 571.68 | 0 | 0 | 23121 | 857.3 | 55.736 | 334.845 | 390.581 | 1457.44 | 843.24 | 2300.68 | | | | | | |
| Total: | 138 | 50 | 10551 | 209.548 | 24553 | 2113.942 | 2099 | 450.171 | 37203 | 2773.661 | 22901 | 445.294 | 9118 | 677.479 | 0 | 0 | 32019 | 1122.773 | 160.056 | 334.845 | 494.901 | 4869.8 | 843.240 | 5713.040 | | | | | | |
| Purba Medinipur | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grand Total: | 1613 | 663 | 320256 | 9890.623 | 409167 | 28704.34 | 76600 | 12042 | 806023 | 50636.93 | 302260 | 8434.312 | 114234 | 8530.5 | 16331 | 1798.92 | 432825 | 18763.73 | 2885.29 | 1999.341 | 4884.631 | 36835.24 | 4445.42 | 41280.652 | | | | | | |



9. 2 (b) (ii) Report on Yield in 2019-20 South Bengal-I (Yeild-II)

| Division | Area felled in Ha | | Pulp Wood in CUM/Short Timber in CUM | | | | | | Billet in M3 | | | Post in No | | Timber in CUM | | | |
|---------------------------------------|----------------------|------------|--------------------------------------|----------|----------|------------|----------|----------|--------------|----------|----------|------------|----------|---------------|----------|----------|-----------------|
| | | | Sal | Pltn. | Sal | Plantation | | | Grand Total | Sal | Euc | Aks | Sal | Euc | Aks | Minjiri | Total |
| | | | | | | Euc | Aks | Total | | | | | | | | | |
| Jhargram | 288 | 96 | | | | | | | Nil | | | | | | | | |
| MFCD | 272 | 35 | | | | | | | | | | | | | | | |
| Total: | 560 | 131 | | | | | | | | | | | | | | | |
| Rupnarayan | 140 | 97 | | | | | | | Nil | | | | | | | | |
| WBFD | 280 | 40 | | | | | | | | | | | | | | | |
| Total: | 420 | 137 | | | | | | | | | | | | | | | |
| Medinipur | 247 | 171 | | | | | | | | | | | | | | | |
| Medinipur Forest Corporation Division | 248 | 174 | | | | | | | | | | | | | | | |
| Total: | 495 | 345 | | | | | | | | | | | | | | | |
| Khargapur | 94 | 5 | | | | | | | Nil | | | | | | | | |
| MFCD | 44 | 45 | | | | | | | | | | | | | | | |
| Total: | 138 | 50 | | | | | | | | | | | | | | | |
| Purba Medinipur | | | | | | | | | Nil | | | | | | | | |
| Grand Total:: | 1613 | 663 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4884.626 |



9. 2 (c) Report on Yield (For Felling) in 2019-20 South Bengal (South 2)

| Division | Area felled in ha | | Sal Pole in Nos | | | | | Pltn Pole in No. | | | Total Pole in No. | Cog Slip. In No. | | | | | Total | Firewood in cum | | | | | | | | | |
|---------------------|-------------------|---------|-----------------|-----------|---------|----------|--------|------------------|--------|---------|-------------------|------------------|---------|----------|---------|----------|---------|-----------------|--------|----------|----------|----------|-----------|-------------|-----------|-----------|-----------|
| | Sal | Pltn. | < 40cm | volume | 41-60cm | volume | > 60cm | volume | < 40cm | Volume | | > 40cm | Volume | 4'x5"x5" | volume | 4'x4"x4" | | volume | 4 ft | volume | 5 ft | volume | Sal | Acacia/ Mln | Euc | Misc | Total |
| BKN Directorate | 247.00 | 176.50 | 28995 | 895.46679 | 83779 | 5877.358 | 18244 | 2868.06 | 16983 | 473.90 | 23374 | 1743.7004 | 171375 | 18792 | 451.008 | 0 | 22266 | 289.458 | 82379 | 1977.096 | 123437 | 7220.205 | 3724057 | 976401 | 0 | 11920663 | |
| BKN Corporation | 189.50 | 66.00 | 38531 | 1189.9718 | 63638 | 4464.404 | 14234 | 2237.67 | 6002 | 167.48 | 6861 | 511.8306 | 129266 | 26658 | 639.792 | 47912 | 622.856 | 0 | 0 | 0 | 74570 | 3844.789 | 473.619 | 369.381 | 1272 | 4700509 | |
| BKS Directorate | 233.00 | 396.00 | 22610 | 698.27571 | 38750 | 2718.433 | 4415 | 694.06 | 36550 | 1019.90 | 49545 | 3696.057 | 151870 | 0 | 0 | 0 | 7953 | 103.389 | 17392 | 417.408 | 25345 | 1961.674 | 0 | 1604.95 | 12025.328 | 15591.952 | |
| BKS Corporation | 172.00 | 185.00 | 95996 | 2964.6915 | 87647 | 6148.71 | 0 | 0 | 0 | 0.00 | 0 | 0 | 183643 | 4057 | 97.368 | 96327 | 1252.25 | 0 | 0 | 42197 | 1012.728 | 142581 | 901.04 | 2475.2 | 427.43 | 0 | 3803.672 |
| Panchet Directorate | 395.00 | 315.00 | 82220 | 2539.2406 | 110438 | 7747.57 | 22841 | 3590.74 | 95418 | 2662.56 | 97758 | 7292.7468 | 408675 | 0 | 0 | 0 | 62049 | 806.637 | 116341 | 2792.184 | 178390 | 5572.206 | 0 | 0 | 3143.152 | 8715.358 | |
| Panchet Corporation | 0.00 | 0.00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.000 | |
| Purulia | 72.72 | 29.50 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 533.501 | 0 | 0 | 735.009 | 1268.510 | |
| Kangsabati(N) | 0.00 | 287.00 | 0 | 0 | 0 | 0 | 0 | 0 | 71 | 1.98 | 2573 | 191.9458 | 2644 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8844.771 | 0 | 0 | 8844.771 | 0 | |
| Kangsabati(S) | 150.00 | 30.00 | 3340 | 103.15086 | 6690 | 469.3243 | 976 | 153.43 | 0 | 0 | 0 | 0 | 11006 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1297.53 | 0 | 0 | 190.988 | 1488.518 | |
| Burdwan | 60.00 | 178.00 | 7766 | 239.84118 | 16215 | 1137.533 | 1900 | 298.69 | 82877 | 2312.61 | 37877 | 2825.6242 | 146635 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3161.232 | 0 | 0 | 2673.2 | 5834.432 | |
| Durgapur | 0.00 | 60.00 | 0 | 0 | 0 | 0 | 0 | 0 | 19218 | 536.26 | 10745 | 801.577 | 29963 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.000 | |
| Birbhum | 15.00 | 133.00 | 3625 | 111.95265 | 1561 | 109.509 | 0 | 0 | 15116 | 421.80 | 7219 | 538.5374 | 27521 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 103.285 | 0 | 0 | 1011.722 | 1115.007 | |
| Grand Total: | 1534.22 | 1856.00 | 283083 | 8743 | 408718 | 28672.8 | 62610 | 9843 | 272235 | 7596 | 235952 | 17602 | 1262598 | 49507 | 1188 | 144239 | 1875 | 92268 | 1199 | 258309 | 6199 | 544323 | 24595.461 | 15517.647 | 3378.165 | 19792.119 | 63283.392 |

| Division | Timber in CUM | | | Total | Post in No. | | Pltn | Billet in M³ | | | Pulpwood in M³ | | | Total M³ | |
|---------------------|---------------|----------|----------|---------|-------------|---------|----------|--------------|----------|-------|----------------|-------|--------|----------|---------|
| | Sal | Euc | Acacia | | Misc. | Sal | | volume | Sal | Euc | Acacia | Sal | Euc | Acacia | Minjiri |
| BKN Directorate | 409.070 | 196.383 | 553.451 | 0.000 | 1158.904 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BKN Corporation | 502.954 | 98.651 | 655.089 | 0.000 | 1256.694 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BKS Directorate | 1006.962 | 341.554 | 0.000 | 524.658 | 1873.174 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BKS Corporation | 380.665 | 178.622 | 180.421 | 0.000 | 739.708 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Panchet Directorate | 1939.492 | 1112.828 | 573.009 | 0.000 | 3625.329 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Panchet Corporation | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Purulia | 536.337 | 4.792 | 31.145 | 0.000 | 572.274 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kangsabati(N) | 0.000 | 181.097 | 235.623 | 0.000 | 416.720 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38.856 | 0 | 38.856 |
| Kangsabati(S) | 119.255 | 45.700 | 71.993 | 0.000 | 236.948 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Burdwan | 53.165 | 409.807 | 574.513 | 0.000 | 1037.485 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Durgapur | 0.000 | 153.674 | 339.304 | 0.000 | 492.978 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Birbhum | 97.518 | 501.976 | 994.425 | 0.000 | 1593.919 | 428 | 67.28411 | 8644 | 952.1696 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grand Total: | 5045.418 | 3225.084 | 4208.973 | 524.658 | 13004.133 | 428.000 | 8644 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 38.856 | 0.000 | 38.856 |



9.2 (d) ABSTRACT of Total Yield in m3

| SI No | Particulars | Working Plan South I | Volume (m3) | Working Plan South - II | Volume (m3) | Total | Working Plan North | Total Volume (m3) |
|-------|--|----------------------|-------------|-------------------------|-------------|------------|--------------------|--------------------|
| 1 | Sal Pole in Nos. | 806023 | 50636.933 | 754411 | 47258.09209 | 1560434 | – | 97,895.03 |
| 2 | Plt pole in No. | 432825 | 18763.73 | 508187 | 25198.50874 | 941012 | – | 43,962.24 |
| 3 | Cogging Sleeper | 0 | 0 | 544323 | 10462.175 | 544323 | – | 10,462.18 |
| 4 | Timber in cum | 4884.631 | 4884.631 | 0 | – | 4884.631 | – | 4,884.63 |
| 5 | Firewood in cum | 41280.652 | 41280.652 | 63283.392 | – | 104564.044 | 202 | 41,482.65 |
| 6 | Pulp Wood in CUM/ Short Timber in CUM | 0 | 0 | 38.856 | – | 38.856 | – | 38.86 |
| 7 | Timber in CUM | 4884.626 | 4884.626 | 13004.133 | – | 17888.759 | 5033.338 | 9,917.96 |
| 8 | Post in No. | 0 | – | 8644 | 1019.453716 | 8644 | – | 1,019.45 |
| | Total | | | | | | | 2,09,663.00 |

| Abstract | | |
|----------|--|--------------------|
| SI No | Particulars | Volume (m3) |
| 1 | Sal Pole in Nos. | 97895.02509 |
| 2 | Akashmoni and Eucalyptus Poles | 43962.23874 |
| 3 | Cogging Sleeper | 10462.175 |
| 4 | Firewood in cum | 41482.652 |
| 5 | Pulp Wood in CUM/Short Timber in CUM | 38.856 |
| 6 | Timber in CUM | 14802.595 |
| 7 | Post in No. | 1019.453716 |
| | Total yield From CFC | 2,09,663.00 |
| 8 | Timber recovered from Cyclone damage | 1566.161 |
| 9 | Timber recovered in raids and Offences | 1383.467 |
| | Grand Total | 2,12,612.62 |



JOINT FOREST MANAGEMENT

CHAPTER - 10

Joint Forest Management (JFM) was born out of a socio-economic movement in the 1980s. The first Government Resolution — specific to Arabari socio-economic project -- was issued in 1987, just over 32 years back. The subsequent years saw not only the spread of JFM but also the evolution of its core characteristics. What was once a struggling sapling -- to borrow metaphor from forestry -- in 1980s and 90s, is now a fully grown tree. It has weathered the political upheavals, globalization of economy and an upwardly mobile society and still managed to stay relevant.

A series of Government Resolutions were passed in 1990s to institutionalize the new form of forest management, formalize the role of stake holders associated with it and spell out benefits that would accrue out of it. The initial resolution was issued for the forest areas in lateritic forest belt of Bengal where JFM really started; but as it spread geographically, new resolutions were issued specific to that geographical area. Thus we had resolutions specific for

north Bengal forests, hill forests and Sundarban forests. A separate resolution was also came out for Protected Areas (for Eco-Development Committee) in 1992.

This cafeteria of Government Resolutions served the purpose very well at the initial stage. But as we progressed with their implementation, fissures started showing up. It was also felt that there should be one overarching piece of government resolution that covers the JFM all over the state.

The forest department, government of West Bengal was mulling with the idea of replacing the old resolutions with a new one for quite some time. A series of consultations were held, expert opinions were taken; and the ideas generated were examined by a committee for incorporation in the new resolution. The result of this exercise is the new JFM resolution incorporating all the Forest Protection Committees and Eco-Development Committees vide Forest Dept's No- 40-FOR dated 31.01.2017.



10.1 JFMCS IN WEST BENGAL AS ON 31/03/2021

10.1.1 JFMCS in outside of Protected Area:

West Bengal has a total of 4324 numbers of JFMCS (erstwhile FPCs) with total membership of 537973 with approximate ratio of male: female membership (first member) at 8:1 which have been reported to be registered in West Bengal covering 570234.93 ha forest area being protected by them. The SC & ST constitute 55.57% of members in the JFMCS (erstwhile FPCs).

| Division | No of JMFC | Area Protected (in Ha) | Members | | | | | |
|------------------|-------------|------------------------|---------------|--------------|---------------|---------------|---------------|---------------|
| | | | Male | Female | Total | SC | ST | Others |
| Darjeeling | 80 | 15239.108 | 4513 | 532 | 5045 | 220 | 2217 | 2608 |
| Kurseong | 46 | 13094.61 | 1084 | 1624 | 2708 | 440 | 1052 | 1216 |
| Kalimpong | 64 | 27104.86 | 3698 | 205 | 3903 | 205 | 1038 | 2660 |
| Darjeeling WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Baikunthapur | 66 | 14023.78 | 6192 | 131 | 6323 | 4529 | 790 | 1004 |
| Jalpaiguri | 61 | 20722 | 10207 | 863 | 11070 | 4760 | 3336 | 2974 |
| BTR East | 17 | 9331.09 | 3340 | 103 | 3443 | 1591 | 1392 | 460 |
| BTR West | 27 | 14786 | 4320 | 665 | 4985 | 825 | 2876 | 1284 |
| Coochbehar | 24 | 4070.90 | 2962 | 209 | 3171 | 1458 | 517 | 1196 |
| Jaldapara WL | 31 | 6499.338 | 8255 | 1144 | 9399 | 1692 | 5004 | 2703 |
| Gorumara WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Raiganj | 21 | 1162.60 | 1727 | 74 | 1801 | 864 | 412 | 525 |
| Malda | 6 | 456.219 | 477 | 106 | 583 | 236 | 283 | 64 |
| Bankura North | 543 | 43567.94 | 50584 | 2094 | 52678 | 19947 | 7917 | 24814 |
| Bankura South | 646 | 45367.96 | 56551 | 4822 | 61373 | 14892 | 18868 | 27613 |
| Panchet | 232 | 27905.09 | 27811 | 1594 | 29405 | 11160 | 4758 | 13487 |
| Kangsabati North | 246 | 17501.96 | 24019 | 885 | 24904 | 5748 | 8100 | 11056 |
| Kangsabati South | 305 | 25446 | 29561 | 569 | 30130 | 4293 | 10889 | 14948 |
| Purulia | 230 | 44426.9 | 42005 | 22411 | 64416 | 8071 | 20691 | 35654 |
| Burdwan | 70 | 17641.5 | 17747 | 2645 | 20392 | 8813 | 4954 | 6625 |
| Durgapur | 23 | 2376.129 | 3707 | 3705 | 7412 | 2460 | 1322 | 3630 |
| Midnapur | 364 | 45956.45 | 48038 | 2801 | 50839 | 10131 | 9186 | 31522 |
| Jhargram | 474 | 62109.444 | 38254 | 2449 | 40703 | 9135 | 14906 | 16662 |
| Rupnarayan | 222 | 27079.17 | 27392 | 1185 | 28577 | 7464 | 7875 | 13238 |
| Kharagpur | 254 | 28185.52 | 29025 | 1586 | 30611 | 6547 | 8751 | 15313 |
| Purba Midnapur | 19 | 1887.48 | 4760 | 1097 | 5857 | 1256 | 50 | 4551 |
| Birbhum | 198 | 10608.23 | 14574 | 331 | 14905 | 4790 | 5212 | 4903 |
| Nadia Msd | 11 | 916.332 | 989 | 44 | 1033 | 253 | 243 | 537 |
| 24 Parganas (S) | 40 | 42534 | 10801 | 10718 | 21519 | 11830 | 514 | 9175 |
| STR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas (N) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Howrah | 4 | 234.32 | 788 | 0 | 788 | 332 | 108 | 348 |
| TOTAL | 4324 | 570234.93 | 473381 | 64592 | 537973 | 143942 | 143261 | 250770 |



10.1.2 JFMCs in the Protected Areas in West Bengal

A total of 146 numbers of EDCs (now re-designated as JFMC) having total membership of 47665 with approximate ratio of male: female membership at 5:2 have been reported to be registered in West Bengal covering 85797.31 ha forest within Protected Areas being protected by them. The SC & ST constitute 58.23% of members in the EDCs. With the promulgation of the latest JFMC resolutions, the erstwhile EDCs are called JFMCs vide no. 40-FOR dated 31.01.2017.

(As on 31.03.2021)

| Name of Forest Division | Name of Protected Area | No. of EDC | Area Protected (in Ha) | No. of Members | | | SC | ST | Others |
|-------------------------|-----------------------------|------------|------------------------|----------------|--------------|--------------|--------------|--------------|--------------|
| | | | | Male | Female | Total | | | |
| Darjeeling Wildlife | Mahananda WLS | 15 | 12,406.55 | 2652 | 2188 | 4840 | 1304 | 1022 | 2514 |
| | Senchal WLS | 15 | 4114.81 | 1586 | 1211 | 2797 | 100 | 1455 | 1242 |
| | Singalila N.P. | 1 | 350 | 63 | 72 | 135 | 0 | 59 | 76 |
| Gorumara Wildlife | Neora Valley N.P. | 6 | 5020.01 | 1391 | 1198 | 2589 | 64 | 952 | 1573 |
| | Gorumara N.P. | 6 | 3695.62 | 1293 | 149 | 1442 | 482 | 457 | 503 |
| | Chapramari Beat Forest Area | 1 | 960.310 | 47 | 2 | 49 | 4 | 8 | 37 |
| | Khunia Beat Forest area | 2 | 1443.9 | 341 | 5 | 346 | 7 | 154 | 185 |
| | Murti Beat Forest area | 3 | 1613.04 | 460 | 90 | 550 | 115 | 189 | 246 |
| Buxa Tiger Reserve (E) | Buxa Tiger Reserve | 14 | 23,534.97 | 1454 | 173 | 1627 | 238 | 612 | 777 |
| Buxa Tiger Reserve (W) | | 7 | 10809.17 | 263 | 181 | 444 | 126 | 318 | 0 |
| Jaldapara Wildlife | Jaldapara WLS | 40 | 9079.251 | 9757 | 1398 | 11155 | 5173 | 3306 | 2676 |
| Raiganj | Kulik WLS | 3 | 130 | 193 | 21 | 214 | 172 | 30 | 12 |
| Birbhum | Ballavpur WLS | 4 | 226.28 | 300 | 10 | 310 | 9 | 196 | 105 |
| Nadia – Murshidabad | Bethuadahari WLS | 1 | 66.67 | 96 | 6 | 102 | 55 | 29 | 18 |
| Sundarban Tiger Reserve | Sundarban Tiger Reserve | 26 | 35779 | 14213 | 6495 | 20708 | 9079 | 1719 | 9910 |
| 24 Parganas North | Bibhuti Bhushan WLS | 1 | 93.70 | 35 | 2 | 37 | 24 | 5 | 8 |
| Purba Midnapur | Arakbari EDC | 1 | 9 | 192 | 128 | 320 | 290 | 0 | 30 |
| TOTAL | | 146 | 85797.31 | 34336 | 13329 | 47665 | 17242 | 10511 | 19912 |



10.2 STATUS OF SELF HELP GROUP AS ON 31/03/2021 (EXCLUDING WOMEN SHG)

It is reported that there are 3029 SHGs in various districts in West Bengal of which 2098 are exclusively women SHGs.

| District | Division | No of SHG | Members | | | No of JFMC/EDC in SHG | Corpus Fund Generated (in INR) |
|--------------------------|------------------|------------|-------------|-------------|-------------|-----------------------|--------------------------------|
| | | | Male | Female | Total | | |
| Darjeeling | Darjeeling | 0 | 0 | 0 | 0 | 0 | 0 |
| Darjeeling | Kurseong | 0 | 0 | 0 | 0 | 0 | 0 |
| Kalimpong | Kalimpong | 0 | 0 | 0 | 0 | 0 | 0 |
| Darjeeling | Darjeeling WL | 34 | 0 | 380 | 380 | 11 | 3,30,344 |
| Jalpaiguri | Baikunthapur | 63 | 79 | 604 | 683 | 49 | 7,21,000 |
| Jalpaiguri | Jalpaiguri | 0 | 0 | 0 | 0 | 0 | 0 |
| Jalpaiguri | Gorumara WL | 8 | 0 | 48 | 48 | 5 | 3,83,057.00 |
| Alipurduar | BTR East | 0 | 0 | 0 | 0 | 0 | 0 |
| Alipurduar | BTR West | 229 | 0 | 0 | 0 | 0 | 0 |
| Coochbehar | Cooch Behar | 79 | 0 | 0 | 273 | 24 | 0 |
| Coochbehar | Jaldapara WL | 0 | 0 | 0 | 0 | 0 | 0 |
| Uttar & Dakshin Dinajpur | Raiganj | 0 | 0 | 0 | 0 | 0 | 0 |
| Malda | Malda | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura | Bankura North | 27 | 177 | 122 | 299 | 09 | 0 |
| Bankura | Bankura South | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura | Panchet | 0 | 0 | 0 | 0 | 0 | 0 |
| Purulia | Kangsabati North | 0 | 0 | 0 | 0 | 0 | 0 |
| Purulia | Kangsabati South | 0 | 0 | 0 | 0 | 0 | 0 |
| Purulia | Purulia | 0 | 0 | 0 | 0 | 0 | 0 |
| Burdwan | Burdwan | 0 | 0 | 0 | 0 | 0 | 0 |
| Burdwan | Durgapur | 0 | 0 | 0 | 0 | 0 | 0 |
| Paschim Medinipur | Midnapur | 155 | 22 | 1385 | 1407 | 59 | 91,04,547 |
| Paschim Medinipur | Jhargram | 0 | 0 | 0 | 0 | 0 | 0 |
| Paschim Medinipur | Rupnarayan | 39 | 10 | 596 | 606 | 30 | 24,04,000 |
| Paschim Medinipur | Kharagpur | 0 | 0 | 0 | 0 | 0 | 0 |
| Purba Medinipur | Purba Midnapur | 0 | 0 | 0 | 0 | 0 | 0 |
| Birbhum | Birbhum | 91 | 574 | 510 | 1084 | 0 | 0 |
| Nadia & MSD | Nadia Msd | 1 | 11 | 1 | 12 | 0 | 0 |
| 24 Parganas (S) | 24 Parganas(S) | 205 | 1538 | 2562 | 4100 | 30 | 0 |
| Howrah | Howrah | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas (S) | STR | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas (N) | 24 Parganas (N) | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | | 931 | 2411 | 6208 | 8892 | 217 | 1,29,42,948.00 |



10.3 STATUS OF SELF HELP GROUP AS ON 31/03/2021 (EXCLUSIVE WOMEN SHG)

| District | Division | No of SHG | Members Female | No of JFMC/EDC in SHG | Corpus Fund Generated (in INR) |
|-----------------------------|------------------|-------------|-------------------|--------------------------|--------------------------------------|
| Darjeeling | Darjeeling | 54 | 484 | 23 | 17,12,341.00 |
| Darjeeling | Kurseong | 20 | 207 | 16 | 0.00 |
| Kalimpong | Kalimpong | 0 | 0 | 0 | 0.00 |
| Darjeeling | Darjeeling WL | 34 | 380 | 11 | 330,344 |
| Jalpaiguri | Baikunthapur | 56 | 604 | 49 | 0.00 |
| Jalpaiguri | Jalpaiguri | 400 | 4000 | 61 | 0.00 |
| Jalpaiguri | Gorumara WL | 8 | 48 | 5 | 3,83,057.00 |
| Alipurduar | BTR East | 97 | 0 | 0 | 0 |
| Alipurduar | BTR West | 0 | 0 | 0 | 0 |
| Coochbehar | Coochbehar | 0 | 0 | 0 | 0 |
| Coochbehar | Jaldapara WL | 39 | 326 | 23 | 0 |
| Uttar & Dakshin Dinajpur | Raiganj | 0 | 0 | 0 | 0 |
| Malda | Malda | 0 | 0 | 0 | 0 |
| Bankura | Bankura North | 174 | 1796 | 53 | 0 |
| Bankura | Bankura South | 102 | 1110 | 51 | 0 |
| Bankura | Panchet | 100 | 1109 | 4 | 2,46000.00 |
| Purulia | Kangsabati North | 64 | 673 | 30 | 3744542 |
| Purulia | Kangsabati South | 66 | 660 | 33 | 0 |
| Purulia | Purulia | 78 | 778 | 35 | 43,68,346 |
| Burdwan | Burdwan | 62 | 505 | 31 | 0 |
| Burdwan | Durgapur | 19 | 164 | 10 | 8,17,056 |
| Paschim Medinipur | Midnapur | 155 | 1385 | 59 | 91,04,547 |
| Paschim Medinipur | Jhargram | 0 | 0 | 0 | 0 |
| Paschim Medinipur | Rupnarayan | 43 | 432 | 21 | 0 |
| Paschim Medinipur | Kharagpur | 45 | 460 | 31 | 26,30,889.00 |
| Purba Medinipur | Purba Midnapur | 0 | 0 | 0 | 0 |
| Birbhum | Birbhum | 217 | 2186 | 217 | 0 |
| Nadia & MSD | Nadia Msd | 0 | 0 | 0 | 0 |
| 24 Parganas (S) | 24 Parganas(S) | 122 | 2440 | 13 | 0 |
| 24 Parganas (S) | STR | 143 | 1430 | 26 | 0 |
| 24 Parganas (N) | 24 Parganas (N) | 0 | 0 | 0 | 0 |
| Howrah | Howrah | 0 | 0 | 0 | 0 |
| TOTAL | | 2098 | 21177 | 802 | 2,33,37,122.00 |



10.4 STATUS OF FDA AS ON 31/03/2021

A total of 1319 numbers of JFMCs in the state are part of FDA with total membership of 178833 with approximate ratio of male: female membership at 10:1 have been reported to be registered in West Bengal. The SC & ST constitute 51.94% of members in the FDA. The status of FDAs as on 31.03.2021 has been tabulated below:

| Name of FDA | No of JFMC/EDC in FDA | No of JFMC/EDC members in FDA | | | | | | Fund utilisation in NAP /other Schemes (in ₹ Lakhs) |
|------------------|-----------------------|-------------------------------|--------------|---------------|--------------|--------------|--------------|---|
| | | Male | Female | Total | SC | ST | Others | |
| Darjeeling | 80 | 4513 | 532 | 5045 | 220 | 2217 | 2608 | 0.00 |
| Kurseong | 46 | 1084 | 1624 | 2708 | 440 | 1052 | 1216 | 0.00 |
| Kalimpong | 64 | 3698 | 205 | 3903 | 205 | 1038 | 2660 | 0.00 |
| Darjeeling WL | 31 | 4302 | 3455 | 7757 | 1394 | 2536 | 3827 | 0.00 |
| Baikunthapur | 0 | 6192 | 131 | 6323 | 4529 | 790 | 1004 | 0.00 |
| Jalpaiguri | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Gorumara WL | 18 | 3524 | 1452 | 4976 | 672 | 1758 | 2546 | 0.00 |
| BTR East | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| BTR West | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Cooch Behar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Jaldapara WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Raiganj | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Malda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Bankura North | 29 | 810 | 19 | 829 | 266 | 38 | 525 | 0.00 |
| Bankura South | 85 | 8606 | 330 | 8936 | 3178 | 2103 | 3655 | 0.00 |
| Panchet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Kangsabati North | 57 | 5940 | 160 | 6100 | 789 | 2563 | 2748 | 0.00 |
| Kangsabati South | 46 | 19211 | 396 | 19607 | 3203 | 7562 | 8842 | 0.00 |
| Purulia | 49 | 5961 | 356 | 6317 | 2107 | 1554 | 2656 | 0.00 |
| Burdwan | 57 | 13937 | 2312 | 16249 | 6764 | 4329 | 5156 | 0.00 |
| Durgapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Midnapur | 364 | 48038 | 2801 | 50839 | 10131 | 9186 | 31522 | 0.00 |
| Jhargram | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Rupnarayan | 45 | 5305 | 320 | 5625 | 2075 | 2495 | 1055 | 0.00 |
| Kharagpur | 254 | 29025 | 1586 | 30611 | 7028 | 8925 | 14658 | 0.00 |
| Purba Midnapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Birbhum | 33 | 2787 | 221 | 3008 | 805 | 935 | 1268 | 0.00 |
| Nadia Msd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| 24 Parganas (S) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| STR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| 24 Parganas (N) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Howrah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| TOTAL | 1319 | 162933 | 15900 | 178833 | 43806 | 49081 | 85946 | 0.0 |



10.5 STATEMENT OF JFMC SHARE IN SOUTH BENGAL FOR THE FINANCIAL YEAR 2020-21

| SI No | WBFDC Division | Directorate Division | No. Of JFMCs | No of Beneficiaries | Amount (In ₹) | Share per capita (RS.) |
|--------------------|----------------|----------------------|--------------|---------------------|-----------------|------------------------|
| 1 | Medinipur FCD | Medinipur | 84 | 12185 | 3,80,86,240.00 | 3125.67 |
| 2 | | Rupnarayan | 54 | 7351 | 4,16,58,538.00 | 5667.06 |
| 3 | | Jhargram | 73 | 5741 | 2,40,95,902.00 | 4197.00 |
| 4 | | Kharagpur | 17 | 1283 | 31,69,272.00 | 2470.20 |
| 5 | Purulia FCD | Purulia | 13 | 1160 | 42,12,618.00 | 3631.57 |
| 6 | | Kangsabati North | 15 | 1468 | 31,70,862.00 | 2160.00 |
| 7 | | Kangsabati South | 0 | 0 | 0.00 | 0.00 |
| 8 | Bankura FCD | Durgapur | 0 | 0 | 0.00 | 0.00 |
| 9 | | Burdwan | 11 | 4169 | 49,71,349.00 | 1192.46 |
| 10 | | Birbhum | 1 | 101 | 3,43,896.00 | 3404.91 |
| 11 | | Bankura North | 34 | 4295 | 3,84,24,952.00 | 8946.44 |
| 12 | | Bankura South | 98 | 10934 | 3,90,60,186.00 | 3572.36 |
| 13 | | Panchet | 77 | 8441 | 5,06,35,910.00 | 5999.00 |
| Total-South Bengal | | | 477 | 57128 | 24,78,29,725.00 | 4438.15 |

10.6 JFMC SHARE DISTRIBUTION STATUS IN SOUTH BENGAL

| YEAR | No. of JFMCs involved | No. of Beneficiaries | Amount (₹ in Lakh) | JFMC share per capita (in ₹) |
|-----------|-----------------------|----------------------|--------------------|------------------------------|
| 1995-1996 | 163 | 20311 | 123.37 | 607.40 |
| 1996-1997 | 354 | 42361 | 243.45 | 574.70 |
| 1997-1998 | 248 | 32156 | 251.24 | 781.32 |
| 1998-1999 | 339 | 35530 | 287.00 | 807.76 |
| 1999-2000 | 445 | 50989 | 402.00 | 788.00 |
| 2000-2001 | 424 | 56479 | 455.50 | 806.00 |
| 2001-2002 | 520 | 45662 | 580.00 | 1270.00 |
| 2002-2003 | 1454 | 45662 | 430.01 | 942.00 |
| 2003-2004 | 1454 | 51047 | 548.75 | 1075.00 |
| 2004-2005 | 1510 | 60150 | 509.25 | 846.00 |
| 2005-2006 | 1944 | 56979 | 592.00 | 1039.00 |
| 2006-2007 | 1967 | 57864 | 634.57 | 1097.00 |
| 2007-2008 | 743 | 90103 | 1511.23 | 1677.00 |
| 2008-2009 | 583 | 64344 | 1487.96 | 2312.00 |
| 2009-2010 | 233 | 24407 | 922.36 | 3779.00 |
| 2010-2011 | 327 | 33585 | 959.70 | 2857.00 |



| YEAR | No. of JFMCs involved | No. of Beneficiaries | Amount (₹ in Lakh) | JFMC share per capita (in ₹) |
|-----------|-----------------------|----------------------|--------------------|------------------------------|
| 2011-2012 | 625 | 114398 | 1713.28 | 1497.65 |
| 2012-2013 | 598 | 59344 | 2039.14 | 3436.00 |
| 2013-2014 | 557 | 41950 | 1180.14 | 2813.00 |
| 2014-2015 | 500 | 51730 | 2147.48 | 4151.00 |
| 2015-2016 | 543 | 63140 | 2545.25 | 4031.12 |
| 2016-2017 | 686 | 71259 | 2615.10 | 3669.85 |
| 2017-2018 | 877 | 82330 | 3042.75 | 3643.42 |
| 2018-2019 | 617 | 73792 | 2909.87 | 3943.35 |
| 2019-2020 | 654 | 74340 | 3240.42 | 4358.92 |
| 2020-2021 | 477 | 57128 | 2478.30 | 4438.15 |



NON TIMBER FOREST PRODUCE (NTFP)

CHAPTER - 11

11.1 NEW PRODUCT LAUNCHED

Herbal Abir (both Red & Green colour) in collaboration with the Parks & Gardens (North) Division was launched in 2016-17 prior to the Holy Festival. The main ingredient for Red Abir was Marigold Flower and that of Green Abir was Bael Leaves.

11.2 ACTIVITIES

- Extraction of Citronella Oil is done from Citronella Java variety grass (*Cymbopogon winterianus*). Plantation of Citronella is done every year as intercrop in the plantation areas of territorial Divisions of Jalpaiguri, Jaldapara and Baikunthapur. All plantations are raised, harvested and extraction of oil is done with the help of JFMC members. Funding is done by West Bengal Forest Development Corporation Ltd.
- NTFP Division started bamboo nursery at Taipu during the year 2007-08 by Nodal cutting followed by micro proliferation. At present 80,000 Nos. seedlings are available.
- Besides Bamboo nursery, Medicinal Plant nursery is also maintained at Taipu, Khuntimari, Nilpara, Targhera and Sukna.
- A Non-Timber Forest Produce museum is maintained at Sukna.
- The manufacturing and packaging unit of NTFPs lies at Taipu, where Ayurvedic drugs and cosmetic products are prepared in the form of dust (churna), semisolid (avaleha) and tablet (batika).
- Overall now this Division manufactures the following products.

(i) **Oil:** Citronella.

| Year | Citronella Plantation (Ha) | Oil Production (Ltr.) |
|---------|----------------------------|-----------------------|
| 2020-21 | 50 | 231.2 |

(ii) **Ayurvedic drug:**

(a) Churna- Trifala, Amlaki, Kalmegh, Chirata, Bel, Basak, Aswagandha, Gurmar, Trikatu, Thankuni, Tulsi, Gadal, Gulancha, Gokhur, Ulatkambal, Ashoka Bark, Satamul, Alkushi, Latakasturi, Nisinda, Haritaki, Sajina, Ginger, Di-nil, Neem, Manjista.

(b) Tablet- Banaliv, Hazmolate, Cough Heal

(iii) **Cosmetics & Ointment:** Garden fresh, Hair fresh, Banosubhra, Banokomol, Banoshree and Banoneel.

At present total 74 **Nos.** of NTFP Products are manufactured.

- From Sale of NTFP Products:
In the last FY 2020-21 ₹ **5.44 lakh** of NTFP Products were sold by this division.
(Total value of NTFP collected from various division of West Bengal is ₹ **20.425 lakhs.**)
- Selling of NTFP Items:
We have three (3) Govt. Sale Centre (outlets) managed by this Division:
 - i) Siliguri
 - ii) Jalpaiguri &
 - iii) Coochbehar

Apart from this we have 45 Authorised Dealers and also the NTFP items are made available through the Sale Centres managed by Divisional Managers, WBFDC and the DFOs of West Bengal.





মাননীয় মুখ্য

মমতা বন্দ্যোপাধ্যায়

মহোৎসব

১১ জুন

বন বিভাগ

ন, বাঁকুড়া

অনুপ্রেরণার

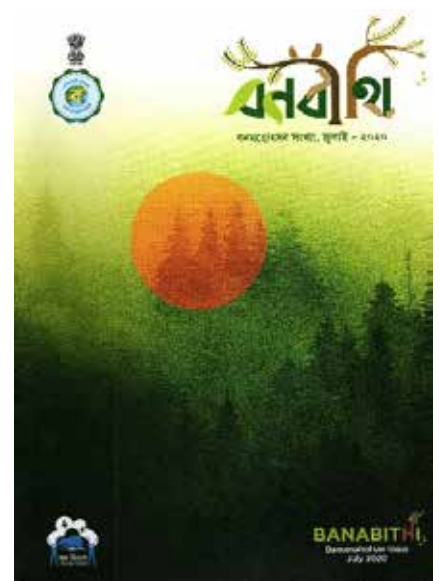
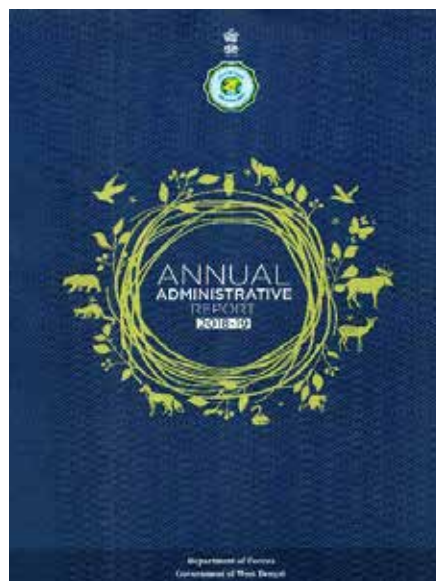
Publicity division was created during 1996 by Forest Department, Government of West Bengal with an aim to create general awareness about forest, wildlife and biodiversity of this State.

The main aim of this Division is to Design and Publish different Books, Publicity Materials like Posters, Banners, Leaflets etc. especially on Forestry & Wildlife. This Division also organizes different Awareness and Sensitization Programs among JFMC

members, School students and general Public as a whole on conservation awareness and on different other issues. This Division also takes part in the Walk past on Red Road on the occasion of the Independence Day of India. This Division plays an important role on celebration of Banamahotsav in the month of July, Banya Pran Divas (Wildlife day) during November, Banbandhob utsav during January, Phool Mela during January and observance of Ban Shahid Divas (Forest Martyrs' day) during September each year.

12.1 TARGET AND ACHIEVEMENTS OF PUBLICITY DIVISION DURING 2020-21

Designing, Composing & Printing - This Division prints books and other publicity materials time to time to generate awareness on various issues and to provide updated information for a functional office system. This year Publicity Division had published different books viz., (i) "Banabithi" Banamahotsav, July Issue-2020, (ii) Annual Administrative Report 2018-19, (iii) Civil list of Indian Forest Service as on 1st January 2021, (iv) Civil List of West Bengal Forest Service as on 1st January 2021.



Other Publicity Materials: Printing & Supplying is an integral part of this Division. Various publicity items are published by this Division, viz., (i) Leaflets, (ii) Posters, (iii) Banners, (iv) Flex Banners, (v) Jute bags, (vi) Designing, Composing, Layout & Printing Departmental Diary &

Calendar. etc. to create awareness and to encourage people to participate in conservation activities. This year Publicity Division has published the Diary cum planner for the year 2021 and also printed 'Sabujshree' leaflets, certificates and poster for distribution to all Forest Divisions of the State.



Awareness Programme through Electronic and Print Media:

To generate awareness among the people of the State, various messages on conservation had been broadcasted through electronic media like Doordarshan, All India Radio, FM channels and also published awareness messages in different Print Medias like newspapers, magazines etc. This year awareness generation for Banmahotsav 2020 was done through Doordarshan, FM Radio, and newspaper advertisement in all leading Newspaper in Bengali, English and Hindi. Newspaper advertisement was also done during World Environment Day this year.

Awareness Programme through Social Media Platform:

To generate awareness among the people of the State, on conservation of Forest and Wildlife and also on environmental issues, various messages on conservation were circulated through various social media platform like Facebook, Twitter, Whatsapp and Website.

Awareness Programme through Digital Display at NSCBI, Kolkata International Airport-

Forest Department, Govt. of West Bengal is constantly working in the field of Forest, Wildlife and Biodiversity conservation all over the State through various schemes in the field like 'Sabujshree', 'Jalathirha' etc. apart from regular activities of afforestation, forest and wildlife management through Joint Forest Management Committees, extending green cover beyond traditional forest areas with peoples participation. All such activities requires wide publicity to the people in general in order to generate awareness regarding Forest, Wildlife and Biodiversity. This year awareness generation was done by means of Digital Display at Netaji Subhash Chandra Bose International Airport, Kolkata since it is the gateway of Eastern and North- Eastern India and having huge passenger traffic flow.



Digital Display at Netaji Subhash Chandra Bose International Airport, Kolkata

Celebration of Banamahotsav 2020: This Division plays a vital role in observation of Banmahotsav. The State Level Programme on Banmahotsav – 2020 was organised at CCR Jhil, Bally, Howrah on 14th July-2020. State Level Banmahotsav programme was celebrated through mass planting of seedlings. Displaying hoarding on celebration of

Banmahotsav through I&C.A. All India Radio campaigns were organised. On this occasion Banabithi-2020, Banmahotsav Issue was published. Different other materials like Posters, Leaflets, etc., were also designed, printed and distributed on this occasion to cultivate Conservation Literacy. This Division also designed the Trophy/ Memento & Citation for



the awardees for Best Plantation of West Bengal & Green JFMC in West Bengal styled as 'Rupasi Bangla Puroskar'. Bulk SMS campaign was also taken up by this Division during Banmahotsav 2020.

List of Publicity Materials in connection with Banamahotsav-2020:

1. Leaflet
2. Flex Banner
3. Poster
4. Leaflet Containing Message
5. Printing of Paper Sun Guard
6. Trophy/Memento & Citation
7. Publication of Banabithi

Bon Bandhob Utsav 2020: West Bengal Forest Department celebrate Banbandhab utsav every year in the view to involve people to protect forests. West Bengal is a pioneer state in involving people in forest management by forming Joint Forest Management Committees. Banbandhab utsav is celebrated in different districts of West Bengal. The achievements of JFMC is showcased and stalls are set up to facilitate the selling of various products developed by JFMC members and Self Help Groups. Also prizes, certificates are distributed to appreciate the contributions made by them in protecting the forests. School children and NGOs are encouraged to actively participate in the program.

However, due to COVID-19 restrictions it was not organized this year.

Sabujshree: Sabujshree is a scheme initiated by Hon'ble Chief Minister, West Bengal commencing from 27th May, 2016 under which each new born baby in the State shall be gifted the sapling of a tree to be planted by her / his family on their own land. The scheme aims to ensure a measure of financial security to each child and increase the green cover in the state. Publicity Division is entrusted with the duty of making wide Publicity of the 'Sabujshree' project. The same was done through both audio-visual media campaign and publishing books, leaflet, certificate etc. All such publicity materials were supplied to different division in the field.

List of Publicity Materials in connection 'Sabujshree':

1. Sabujshree book
2. Leaflet (folder)

3. Certificate
4. JFMC Poster
5. Register
6. Sabujshree Poster



Forest Martyrs' Day (Ban Shahid Divas)-2020:

National Forest Martyrs' Day is observed every year on 11th September in India to honor those who gave their lives in protecting Forests and Wildlife. This year in West Bengal, Forest Martyrs' Day -2020 (Ban Shahid Divas) was observed on 11th September 2020 at Banabitan Park.



Ban Shahid Divas

Phool Mela at Eden Garden: This Division organises a stall at Eden Garden's Phool Mela each year for awareness generation. However, due to COVID-19 restrictions it was not organized this year.





13.1 WILDLIFE MANAGEMENT & CONSERVATION

West Bengal has 4706 sq.km. of forests under protected area network which is 39.50% of the State's total forest area and 5.28% of the total geographical area. After the declaration of West Sundarban Wildlife Sanctuary as a new WLS and increase in area of Neora Valley National Park, now the PA network includes 1502.8146 sq.km. in sixteen Sanctuaries, 1981.4817 sq.km. in six National Parks and the balance areas are being represented by buffer areas of the two Tiger Reserves, viz. Sundarban Tiger Reserve and Buxa Tiger Reserve. There are two Elephant Reserves viz., Mayurjharna Elephant Reserve with an area of 414.00 Sq.km. and Eastern Dooars Elephant Reserve with an area of 977.51 Sq.km.

In addition, one Biosphere Reserve viz. Sundarban Biosphere Reserve with an area of 9630 Sq.km. This includes the Sundarban Tiger Reserve, the Lothian Island Wildlife Sanctuary, West Sundarban Wildlife Sanctuary and the Haliday Island Wildlife Sanctuary.

In West Bengal emphasis has been given to conservation and management of sustainable resources in order to achieve the goal of long-term biodiversity conservation. The overall strategy involves protection of critical habitats of endangered species. The strategies also focus on improved PA management, development of infrastructure, habitat improvement programme, reduction of man animal conflict, capacity building and involvement of local people in management of PA areas.

13.2 STATUS OF MANAGEMENT PLAN / TIGER CONSERVATION PLAN (TCP) AS ON 31.03.2021

| Sl. No. | Name of Protected Area/ Tiger Reserve | Period | Present Status |
|---------|--|--------------------|--|
| 1 | Sundarban Tiger Reserve (incl. Sundarban NP & Sajnekhali WLS) | 2017-18 to 2021-22 | Approved Tiger Conservation Plan |
| 2 | Buxa Tiger Reserve (incl. Buxa NP & Buxa WLS) | 2016-17 to 2026-27 | Approved Tiger Conservation Plan |
| 3 | Gorumara National Park | 2018-19 to 2027-28 | Draft Management Plan returned to DFO, GWLD for rectification |
| 4 | Singhalila National Park | 2013-14 to 2022-23 | Management Plan Operational |
| 5 | Neora Valley National Park | 2018-19 to 2028-29 | Draft Management Plan including newly added area returned to DFO, GWLD for rectification |
| 6 | Jaldapara National Park | 2018-19 to 2027-28 | Management Plan Operational |
| 7 | Mahananda Wildlife Sanctuary | 2011-12 to 2021-22 | Management Plan Operational |
| 8 | Senchal Wildlife Sanctuary | 2012-13 to 2021-22 | Management Plan Operational |
| 9 | Chapramari Wildlife Sanctuary | 2011-12 to 2021-22 | Management Plan Operational |
| 10 | Bethuadahari Wildlife Sanctuary | 2013-14 to 2022-23 | Management Plan Operational |
| 11 | Bibhutibhusan Wildlife Sanctuary | 2011-12 to 2020-21 | Management Plan Operational |
| 12 | Ballavpur Wildlife Sanctuary | 2009-10 to 2019-20 | Management Plan Operational |



| Sl. No. | Name of Protected Area/ Tiger Reserve | Period | Present Status |
|---------|--|--------------------|---|
| 13 | Ramnabagan Wildlife Sanctuary (Bardhaman Zoological Park) | 2012-13 to 2022-23 | As it is managed by WBZA as per approved Plan of CZA, there is no need of Management Plan |
| 14 | Raiganj Wildlife Sanctuary | 2011-12 to 2020-21 | Management Plan Operational |
| 15 | Halliday Island Wildlife Sanctuary | 2017-18 to 2026-27 | Draft Management Plan returned to DFO, 24-Pgns(S) for rectification |
| 16 | Lothian Island Wildlife Sanctuary | 2017-18 to 2026-27 | Draft Management Plan returned to DFO, 24-Pgns(S) for rectification |
| 17 | Chintamani Kar Wildlife Sanctuary | 2015-16 to 2024-25 | Draft Management Plan returned to DFO, 24-Pgns(S) for rectification |
| 18 | West Sundarban Wildlife Sanctuary | 2016-17 to 2025-26 | Management Plan Operational |
| 19 | Pakhi Bitan Wildlife Sanctuary | — | Instruction issued to prepare the MP |

Management Plan of Mayurjharna Elephant Reserve approved for the period 2014-15 to 2023-24.

13.3 PROTECTED AREAS OF WEST BENGAL

13.3.1 National Parks & Sanctuaries in West Bengal

| Protected Area / Tiger Reserve / Elephant Reserve | Area in Sq. Km. | Notification No. & Date | Bio-geographic Zone | District |
|--|--------------------|------------------------------------|------------------------|--------------------------------------|
| National Parks: | | | | |
| 1. Singalila N.P. | 78.60 | 9057-For dt. 2.12.92 | 2C | Darjeeling |
| 2. Neora Valley N.P. | 159.8917 | 103-FR/O/11M-91/12 dt. 11.01.13 | 2C | Kalimpong |
| 3. Buxa N.P. | 117.10 | 3403-For dt. 5.12.97 | 7B | Alipurduar |
| 4. Gorumara N.P. | 79.45 | 1-For dt. 1.1.98 | 7B | Jalpaiguri |
| 5. Sundarban N.P. | 1330.10 | 2867-For dt. 4.5.84 | 8B | South-24 Parganas |
| 6. Jaldapara N.P. | 216.34 | 975-For dt. 27.4.12 | 7B | Alipurduar |
| Total | 1981.4817 | | | |
| Sanctuaries: | | | | |
| 1. Jorepokhri Salamander W.L.S. | 0.04 | 1107-For dt. 11.03.85 | 2C | Darjeeling |
| 2. Senchal W.L.S. | 38.88 | 2773-For dt. 19.8.98 | 2C | Darjeeling |
| 3. Chapramari W.L.S. | 9.60 | 2774-For dt. 19.8.98 | 7B | Jalpaiguri |
| 4. Mahananda W.L.S. | 158.04 | 2775-For dt. 19.8.98 | 7B | Darjeeling & partly at Jalpaiguri |
| 5. Raiganj W.L.S. | 1.30 | 1901-For dt. 11.4.85 | 7B | North Dinajpur |
| 6. Bethuadahari W.L.S. | 0.6686 | 2772-For dt. 19.8.98 | 7B | Nadia |
| 7. Ballavpur W.L.S. | 2.021 | 4655-For dt. 11.7.77 | 7B | Birbhum |
| 8. Ramnabagan W.L.S. | 0.145 | 4345-For dt. 30.9.81 | 7B | Bardhaman |



| Protected Area / Tiger Reserve / Elephant Reserve | Area in Sq. Km. | Notification No. & Date | Bio-geographic Zone | District |
|--|------------------|--|---------------------|-------------------|
| 9. Bibhutibhusan W.L.S. | 0.64 | 2776-For dt. 19.8.98 | 8B | North-24 Parganas |
| 10. Chintamani Kar Bird Sanctuary (old Narendrapur W.L.S.) | 0.07 | 4300-For dt. 21.10.05 | 8B | South-24 Parganas |
| 11. Sajnakhali W.L.S. | 362.40 | 5396-For dt. 24.6.76 | 8B | South-24 Parganas |
| 12. Haliday Island W.L.S. | 5.95 | 5388-For dt. 24.6.76 | 8B | South-24 Parganas |
| 13. Lothian Island W.L.S. | 38.00 | 2771-For dt. 19.8.98 | 8B | South-24 Parganas |
| 14. Buxa W.L.S. | 314.52 | 316-For dt. 24.1.86 ; 7588-For dt. 6.10.90 and 12-For dt. 1.1.91 | 7B | Alipurduar |
| 15. West Sundarban W.L.S. | 556.45 | 1828-For dt. 11.9.13 | 8B | South-24 Parganas |
| 16. Pakhi Bitan (Bird Sanctuary) | 14.09 | 2157-FR/O/ L/6M-04/2015 dated 11.08.2016 | 7B | Jalpaiguri |
| Total | 1502.8146 | | | |

13.3.2 Tiger Reserves in West Bengal

| Tiger Reserves: | | | | |
|-----------------------------------|------------------|-----------------------|----|---------------------------------------|
| 1. Buxa Tiger Reserve | | | 7B | Alipurduar |
| Core Area | 390.5813 | 3051-For dt. 06.08.09 | | |
| Buffer Area | 370.2886 | 3050-For dt. 06.08.09 | | |
| Total | 760.8699 | | | |
| 2. Sundarban Tiger Reserve | | | 8B | South-24 Parganas & North-24 Parganas |
| Core Area | 1699.62 | 6028-For dt. 18.12.07 | | |
| Buffer Area | 885.27 | 615-For dt. 17.02.09 | | |
| Total | 2584.89 | | | |
| Total: | 3345.7599 | | | |

* The total area includes NP and Sanctuary areas already mentioned.

13.3.3 Biosphere Reserve in West Bengal

| Biosphere Reserve: | Area in Sq. Km. | Notification No. & Date | Bio-geographic Zone | District | Ecologically Important species |
|---|-----------------|--|---------------------|----------------------------------|---|
| Sundarban Biosphere (including STR, Sajnakhali, West Sundarban, Lothian and Haliday WLSs) | 9630 | Govt. of India vide No. 16/6/84-CSC dt. 19.03.1989 | | South-24 Pgns. North-24 Pgns. | Tiger (<i>Panthera tigris tigris</i>), Estuarine Crocodile (<i>Crocodylus porosus</i>), Water Monitor Lizard (<i>Varanus salvator</i>), Mangrove plants like <i>Nipa fruticans</i> , <i>Avicennia spp.</i> , <i>Ceriops spp.</i> , <i>Excoecaria agallocha</i> , etc. |
| Total | 9630 | | | | |



13.3.4 Elephant Reserves in West Bengal

| Elephant Reserves: | | | | |
|-------------------------|----------------|--------------------------|----|--|
| Eastern Duars ER | | 3293-For dt. 28.8.2002 | 7B | Jalpaiguri & Alipurduar |
| Core | 484.00 | | | |
| Buffer | 493.51 | | | |
| Total | 977.51 | | | |
| Mayurjharna ER | 414.00 | 3040-For. dt. 24.10.2002 | 6B | Paschim Medinipur, Bankura and Purulia |
| Total | 1391.51 | | | |

13.3.5 Conservation Reserves in West Bengal

| Conservation Reserves | Area in Sq. Km. | Notification No. & Date | Bio-geographic Zone | District |
|-----------------------|-----------------|-------------------------|---------------------|-------------------|
| Deul | 10.50 | 1555-For.dt.19.05.2017 | 7B | Burdwan |
| Hijli | 15.50 | 1555-For.dt.19.05.2017 | 6B | Paschim Medinipur |
| Tekonia | 5.87 | 1555-For.dt.19.05.2017 | 7B | Coochbehar |
| Mukutmonipur | 43.70 | 1555-For.dt.19.05.2017 | 6B | Bankura |
| Garpanchkot | 1340.34 | 1555-For.dt.19.05.2017 | 6B | Purulia |
| Total | 1415.91 | | | |

13.4 WILDLIFE CENSUS

13.4.1 Tiger

Demography of Tiger individuals captured in Sundarban Tiger Reserve (2016-17 to 2019-20)

| Sl. No. | Range/Unit | No. of Individuals by Year | | |
|--------------|-------------------------------|----------------------------|----------------|-----------|
| | | 2016-17 | 2018-19 (Aite) | 2019-20 |
| 1 | Sajnekhali Wildlife Sanctuary | 14 | 15 | 10 |
| 2 | Basirhat Range | 14 | 13 | 19 |
| 3 | National Park (West) Range | 19 | 18 | 20 |
| 4 | National Park (East) Range | 16 | 20 | 24 |
| 5 | 24-Parganas (South) Division | 24 | 22 | 23 |
| Total | | 87 | 88 | 96 |

13.4.2 Rhinoceros

| Year | Jaldapara WL Divn | Gorumara WL Divn | Total |
|------|-------------------|---------------------------------|-------|
| 2006 | 108 | 27 | 135 |
| 2008 | – | 31 | – |
| 2009 | 125 | – | – |
| 2011 | 149 | 35 * | 184 |
| 2012 | – | 43 * | – |
| 2013 | 186 | – | – |
| 2014 | | 50* | – |
| 2015 | 204 | 49 + 2 (Darjeeling WL Division) | 255 |
| 2019 | 237 | 52 | 289 |

*(Gorumara, Chapramari & adjoining areas of Gorumara N.P. & Chapramari WLS)



| Rhino Population (as per 2019 Census) | | | | |
|---|------------|------------|------------------|------------|
| Protected Area | Male | Female | Sex unidentified | Total |
| Jaldapara NP | 98 | 94 | 45 | 237 |
| Gorumara NP (including Chapramari WLS & adjoining areas of Gorumara & Chapramari) | 25 | 17 | 10 | 52 |
| Grand Total | 123 | 111 | 55 | 289 |

13.4.3 Leopard

| Year | Gorumara WLD | Buxa TR | Jaldapara WLD | Mahananda WLS | Other areas | Total |
|------|--------------|----------------|---------------|---------------|-------------|-------------|
| 2004 | 43 | Not done | 28 | 26 | 67 | 164 |
| 2012 | Not done | 105 (BTR-West) | Not done | Not done | Not done | 105+ |

13.4.4 Gaur

| Year | Total Number |
|---------|---|
| 2009-10 | Not less than 901 (Gorumara NP & Chapramari WLS only) |
| 2012-13 | 414 BTR(W) |
| 2013-14 | 782 BTR(W) |

13.4.4 Elephant

| Year | Total Number |
|------|---|
| 1989 | 175 |
| 1993 | 186 |
| 1997 | 230-250 |
| 1998 | 230-250 |
| 2000 | 327 |
| 2002 | 328* |
| 2005 | North Bengal 300-350 & South Bengal 96 |
| 2007 | North Bengal 300-350 & South Bengal 25 (excluding migratory population) |
| 2010 | North Bengal 529 & South Bengal 118 (including migratory population) |
| 2014 | North Bengal 590+, Census not done in South Bengal. |
| 2017 | All India Synchronized Elephant Population Estimation North Bengal – 488 nos. and South Bengal 194 nos. |

13.4.5 Crocodile (Salt Water Crocodile)

Exercised in STR & 24-Parganas (South) Division

| Year | Indirect sighting | Direct sighting | | | |
|------|-------------------|-----------------|----------|-----------|-------|
| | | Adult | Juvenile | Hatchling | Total |
| 2012 | 99 | 69 | 61 | 10 | 140 |



13.5 MAN-ANIMAL CONFLICT ISSUES

13.5.1 Persons Killed / Injured by Wild Animals during 2020-21

| Sl. No. | Name of Animals | No. of Persons Killed | No. of Persons injured |
|--------------|-----------------|-----------------------|------------------------|
| (1) | (2) | (3) | (4) |
| 1 | Elephant | 75 | 130 |
| 2 | Tiger | 7 | |
| 3 | Leopard | | 5 |
| 4 | Gaur | 1 | |
| 5 | Crocodile | 1 | |
| 6 | Jackal | | 1 |
| Total | | 84 | 136 |

13.5.2 Human-Elephant Conflict

| Name of District | 2020-21 |
|-------------------|---|
| Alipurduar | Human death-15 nos., Human injury-17 nos., Crop damage-389.18 Ha., Hut damage-836 nos., Livestock death-125 nos. |
| Bankura | Human Death - 4 nos., Human Injury - 5 nos., Crop Damage - 313.487 Ha., Hut Damage - 276 nos. |
| Birbhum | NIL |
| Bardhaman Purba | Crop damage - 116 ha., Human Injury - 1 no. |
| Bardhaman Paschim | NIL |
| Coochbehar | 1.Crop damage-2.30 Ha. |
| D Dinajpur | NIL |
| Darjeeling | Human death-14 nos., Human Injury-48 nos., Livestock death-53 nos., Hut Damage-143 nos., Crop damage-204 Ha. |
| Howrah | Crop damage-20 Ha. |
| Hooghly | Crop damage-45 Ha. |
| Jalpaiguri | Human Death- 20 nos., Human Injury- 39 nos., Hut Damage- 458 nos., Crop Damage-130.69 ha., Livestock death-86 nos. |
| Jhargram | Human death: 14 nos., Human Injury: 7 nos., Hut Damage: 142 nos., Crop damage: 367.52 ha., Livestock death: 15 nos. |
| Malda | NIL |
| Murshidabad | NIL |
| Nadia | NIL |
| N 24 parganas | NIL |
| Paschim Medinipur | Human death-6 nos., Human injury-13 nos., Crop damage-1600.751 Ha., Hut damage-369 nos. |
| Purba Medinipur | NIL |
| Purulia | Human death-1 no., Crop damage-7.8 Ha. |
| S 24 parganas | NIL |
| U Dinajpur | NIL |
| Kalimpong | Human death-1 no., Livestock Killed -1 no., iv) Hut Damage-13 nos., v) Crop damage-6.174 Ha. |
| Kolkata | NIL |
| Total | Human death-75 Nos., Human injury-130 Nos., Crop damage-3202.902 Ha., Hut damage-2237 Nos., Livestock death-280 Nos. |



13.5.3 Ex-Gratia Payment for Compensation

| Division | Comp paid for human life (₹) | Comp paid for human injury (₹) | Comp paid for livestock killed (₹) | Comp paid for hut damage (₹) | Comp paid for crop damage (₹) | Total Comp (₹) | Remarks |
|------------------------------|------------------------------|--------------------------------|------------------------------------|------------------------------|-------------------------------|--------------------|--------------------------|
| Darjeeling Wildlife Division | 400000.00 | 150332.00 | 68000.00 | 21000.00 | 660668.00 | 1300000.00 | - |
| Gorumara Wildlife Division | 4130000.00 | 1495880.00 | 51900.00 | 130000.00 | 568000.00 | 6375780.00 | - |
| Jaldapara Wildlife Division | 3962500.00 | 410055.00 | 183000.00 | 1537300.00 | 2951125.00 | 9043980.00 | - |
| Buxa Tiger Reserve (East) | 760000.00 | 0.00 | 106851.00 | 821400.00 | 1755423.00 | 3469174.00 | Other damage- ₹ 25500.00 |
| Buxa Tiger Reserve (West) | 1660000.00 | 0.00 | 97500.00 | 755112.00 | 803700.00 | 3316312.00 | - |
| Baikunthapur Division | 1250000.00 | 0.00 | 164000.00 | 1250100.00 | 1153900.00 | 3818000.00 | - |
| Jalpaiguri Division | 1520000.00 | 294100.00 | 39200.00 | 2326000.00 | 1676873.00 | 5856173.00 | - |
| Coochbehar Division | 0.00 | 4300.00 | 9000.00 | 0.00 | 55347.00 | 68647.00 | - |
| Darjeeling Forest Division | 400000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 400000.00 | - |
| Kalimpong Division | 400000.00 | 0.00 | 900.00 | 51500.00 | 81800.00 | 534200.00 | - |
| Kurseong Division | 4280000.00 | 43585.00 | 47500.00 | 412500.00 | 2472000.00 | 7255585.00 | - |
| Malda Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - |
| Raiganj Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - |
| Bankura (North) Division | 962500.00 | 51744.00 | 0.00 | 972478.00 | 2813765.00 | 4800487.00 | - |
| Bankura (South) Division | 300000.00 | 0.00 | 0.00 | 11400.00 | 75884.00 | 387284.00 | - |
| Panchet Division | 200000.00 | 0.00 | 0.00 | 0.00 | 1145859.00 | 1345859.00 | - |
| Jhargram Division | 5600000.00 | 229535.00 | 56720.00 | 927555.00 | 5450303.00 | 12264113.00 | - |
| Medinipur Division | 1400000.00 | 21500.00 | 0.00 | 1252685.00 | 16232980.00 | 18907165.00 | - |
| Kharagpur Division | 775000.00 | 0.00 | 6000.00 | 492850.00 | 6574031.00 | 7847881.00 | - |
| Rupnarayan Division | 600000.00 | 0.00 | 0.00 | 246100.00 | 5118960.00 | 5965060.00 | - |
| Birbhum Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - |
| Durgapur Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - |
| Burdwan Division | 0.00 | 0.00 | 0.00 | 0.00 | 113700.00 | 113700.00 | - |
| Purulia Division | 400000.00 | 0.00 | 0.00 | 366000.00 | 3234000.00 | 4000000.00 | - |
| Kangsabati (South) Division | 0.00 | 0.00 | 0.00 | 0.00 | 128000.00 | 128000.00 | - |
| Kangsabati (North) Division | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | - |
| | 29000000.00 | 2701031.00 | 830571.00 | 11573980.00 | 53066318.00 | 97197400.00 | - |



13.6 DEATH OF WILD ANIMALS DURING 2020-21 IN WEST BENGAL

| Name of Animals | Natural Death | Accident | Poaching | Retaliatory Killing | Total |
|-----------------|---------------|-----------|----------|---------------------|------------|
| Elephant | 22 | 11 | 0 | 0 | 33 |
| Tiger | 0 | 0 | 0 | 0 | 0 |
| Leopard | 20 | 1 | 1 | 0 | 22 |
| Rhino | 12 | 1 | 0 | 0 | 13 |
| Gaur | 63 | 0 | 1 | 0 | 64 |
| Total | 117 | 13 | 2 | 0 | 132 |

13.6.1 Seizure of Wildlife & Wildlife Articles reported during the year 2020-21

| Sl. No. | Seized items | Qty. |
|---------|--------------------|-----------|
| 1. | Indian Birds | 1320 Nos. |
| 2. | Snake | 69 Nos. |
| 3. | Turtle/Tortoise | 4099 Nos. |
| 4. | Elephant tusk | 2 Nos. |
| 5. | Gecko | 20 Nos. |
| 6. | Leopard skin | 2 Nos. |
| 7. | Deer meat | 3 Kg. |
| 8. | Deer horn | 10 Nos. |
| 9. | Deer skin | 5 Nos. |
| 10. | Squirrel | 1 No. |
| 11. | Hyena (Carcass) | 1 No. |
| 12. | Sambar horn | 1 No. |
| 13. | Snail | 1200 Kg. |
| 14. | Nilgai | 1 No. |
| 15. | Snake venom | 2 jars |
| 16. | Pangolin | 1 No. |
| 17. | Monitor Lizard | 1 No. |
| 18. | Fishing Cat | 1 No. |
| 19. | Pangolin scale | 4.120 Kg. |
| 20. | Civet (Carcass) | 1 No. |
| 21. | Squirrel (Carcass) | 5 Nos. |

13.7 WILDLIFE OFFENCE UNDER WILDLIFE (PROTECTION) ACT, 1972 DURING 2020-21

| Division | POR | COR | UDOR | Person arrested |
|----------------------------|-----|-----|------|-----------------|
| Gorumara Wildlife Division | 18 | 0 | 0 | 15 |
| Buxa Tiger Reserve (East) | 4 | 0 | 0 | 5 |
| Baikunthapur Division | 4 | 0 | 0 | 10 |
| Jalpaiguri Division | 3 | 0 | 0 | 2 |



| Division | POR | COR | UDOR | Person arrested |
|------------------------------|-----------|------------|------------|-----------------|
| Kurseong Division | 4 | 0 | 0 | 5 |
| Coochbehar Division | 4 | 0 | 0 | 11 |
| Malda Division | 2 | 0 | 1 | 2 |
| Raiganj Division | 4 | 0 | 4 | 12 |
| Nadia-Murshidabad Division | 4 | 100 | 49 | 4 |
| Burdwan Division | 2 | 0 | 3 | 5 |
| Rupnarayan Division | 0 | 176 | 15 | 0 |
| Medinipur Division | 0 | 491 | 109 | 0 |
| Kangsabati (North) Division | 1 | 0 | 0 | 0 |
| Bankura (South) Division | 1 | 0 | 0 | 1 |
| Panchet Division | 0 | 0 | 1 | 0 |
| Howrah Division | 1 | 0 | 0 | 6 |
| 24-Parganas (North) Division | 8 | 4 | 0 | 20 |
| 24-Parganas (South) Division | 5 | 2 | 5 | 14 |
| Wildlife (Headquarters) | 4 | 5 | 32 | 5 |
| Total | 69 | 778 | 219 | 117 |

13.8 ANIMAL RESCUED IN WEST BENGAL DURING THE YEAR 2020-21

| Sl. No. | Species | Number | Sl. No. | Species | Number |
|---------|-----------------|-----------|---------|--------------|-------------------|
| 1 | Bird | 3225 Nos. | 15 | Elephant | 5 Nos. |
| 2 | Snake | 6154 Nos. | 16 | Leopard | 7 Nos. |
| 3 | Turtle/Tortoise | 3642 Nos. | 17 | Wild Boar | 1 No. |
| 4 | Squirrel | 7 Nos. | 18 | Dolphin | 2 Nos. |
| 5 | Monitor Lizard | 188 Nos. | 19 | Gharial | 2 Nos. |
| 6 | Jackal | 26 Nos. | 20 | Barking Deer | 9 Nos. |
| 7 | Monkey | 112 Nos. | 21 | Spotted Deer | 6 Nos. |
| 8 | Langur | 1018 Nos. | 22 | Crocodile | 117 Nos. |
| 9 | Jungle Cat | 31 Nos. | 23 | Chameleon | 7 Nos. |
| 10 | Fishing Cat | 90 Nos. | 24 | Mongoose | 33 Nos. |
| 11 | Civet | 548 Nos. | 25 | Bengal Fox | 52 Nos. |
| 12 | Porcupine | 16 Nos. | 26 | Bat | 2 Nos. |
| 13 | Gecko | 11 Nos. | | Total | 15316 Nos. |
| 14 | Nilgai | 6 Nos. | | | |



13.9 RECOGNITION STATUS OF RESCUE CENTRES /DEER PARK / ZOOS IN WEST BENGAL

| Sl. No. | Name | Division / District | Status | CZA's letter no. |
|---------|---|-----------------------------|---|---|
| 1. | Padmaja Naidu Himalayan Zoological Park | Darjeeling Division | Recognized as a 'Medium Zoo' upto 20.01.2019 | F. No. 19-20/92-CZA(325) (Vol. IX)/367/2016, dt. 03.03.2016 |
| 2. | North Bengal Wild Animal Park, Siliguri | Jalpaiguri | Relocation of Kunjanagar Eco-Park, Jalpaiguri to North Bengal Wild Animal Park, Siliguri approved by the CZA vide F.No.22-64/2004-CZA(461) (AK)/7287, dt. 10.06.2015 | For.Deptt., Govt. of WB's Letter No. 2372-For/O/N/11-M-71/2013 dt. 21.11.14 |
| 3. | South Khairbari Leopard Safari & Rehabilitation Centre, Coochbehar | Jaldapara Wildlife Division | Recognized as 'Mini Zoo' upto 30.09.2015. This has been ordered to be physically closed vide letter F.No. 22-64/2004-CZA(461)(M)/4625 dt. 09.04.14. of CZA. This to be maintained as South Khairbari Rescue Centre only. | F.No. 22-63/2004-CZA(462)(M)/3635 dt.26.09.2013 |
| 4. | Bochamari Gharial Rescue Centre and Deer Park/ Rasik Beel | Coochbehar Division | Recognized as 'Mini Category Zoo', upto 22.03.2020. (The Satellite Facility at Kholta of Rasik Beel Mini Zoo has been ordered to be physically closed vide letter F.No. 22-64/2004-CZA(461)(M)/4625 dt. 09.04.14.) | F.No.22-88/2004-CZA(499) (Vol.II)/(PKR)/2900/2018 dt.10.04.2018 |
| 5. | Animal Rescue Centre, Surulia | Kangsabati (North) Division | Recognized as 'Mini Zoo' upto 28.09.2019 | F.No.22-71/2004-CZA(457)(Vol.I)/NS/156/2019 dt.29.01.2019. |
| 6. | Adina Deer Park, Adina, Malda | Malda Division | Recognized as 'Mini Zoo' upto 05.05.2018. | F.No.22-49/2004-CZA(489)(NS)/911/2016, dt.20.06.2016. |
| 7. | Bardhaman Zoological Park, Bardhaman (formerly known as Ramnabagan Deer Park) | Burdwan Division | Recognized as 'Small Category Zoo' upto 27.09.2020. | F.No. 22-67/2004-CZA(473)(Vol.II) (PKR)/4960/2018 dt.30.10.2018. |
| 8. | Garchumuk Deer Park | Howrah Division | Recognized as 'Mini Zoo' upto 05.05.2017 | F.No. 23-3/97-CZA (382)(NS)/978/20/8, dt.22.06.2016 |
| 9. | Alipore Zoological Garden, Kolkata | Kolkata | Recognized as 'Large Category Zoo' upto 30.11.2018. | F.No.19-45/92-CZA (328) (Vol.III) (Pt.)(NS)/8024, dt.18.11.2015. |
| 10. | Marble Palace Zoo (Private) | Kolkata | Recognized as 'Mini Zoo' upto 22.03.2019. | 19-81/93-CZA(316) (M)/4622, dt. 09.04.2014. |
| 11. | Junglemahal Zoological Park, Jhargram (Formerly known as Jhargram Deer Park & Mini Zoo) | Jhargram Division | Recognized upto 21.03.2019 (Name changed to Junglemahal Zoological Park vide W.B. Govt. Notification No. 1153-For/O/11M-11/2015 dt. 03.06.15) | F.No.19-204/93-CZA(321) (Vol.II)(AK)/700/2017 dt. 30.03.2017 |



| Sl. No. | Name | Division / District | Status | CZA's letter no. |
|---------|--|------------------------------|--|--|
| 12. | Sundarban Wild Animals Park, Jharkhali (Jharkhali Satellite Zoo) | 24-Parganas (South) Division | Relocation of Kumari Kangsabati Deer Park, Bankura to Sundarban Wild Animals Park, Jharkhali approved by the CZA | F.No.19-224/93-CZA(322) (NS)/7298 dt. 17.06.2015 & F.No.19-224/93-CZA(322) (Vol-I)(AK) /2048/2016 dt. 15.07.2016 & No. 7-10/2020-CZA (Part-I) dt. 25.08.2020 |
| 13. | Harinalaya, New Town, Kolkata | 24-Parganas (North) Division | Deer Park | F.No. 22-81/2004-CZA(498)(Vol.I)(NS)/7547 dt. 06.08.2015 |

13.10 WILDLIFE CONSERVATION AWARD 2020

The Wildlife Wing, West Bengal has been recognizing the Staff, Officers, Individuals /NGOs for quite some past years by giving the Wildlife Conservation Awards for outstanding performance in the field of protection and conservation of Wildlife throughout the year and State. During the year, 2016-17, Department of Forests, Govt. of West Bengal issued a Notification for awarding of Wildlife Conservation Award to the Forest Officers (upto the rank of DFO), individuals, groups, NGOs etc., who have shown exemplary courage and valour or have done exemplary work for the protection of wildlife.

There are three categories of Award given:

1. Award for Protection and Rescue of Wildlife
2. Award for Wildlife Conflict Management
3. Award for Conservation Awareness

A Committee for scrutiny of nominations was formed under this Order.

13.10.1 Awards and Presentation

Cash rewards were declared in Wildlife Conservation Award by the Department of Forests, Govt. of West Bengal. The award recipients receive a commemorative plaque, a certificate of appreciation and award of ₹ 25,000/- (Rupees Twenty Five Thousand) only, in cash. This year winners have been selected by the selection committee for the categories of **(i) Protection and Rescue of Wildlife and (ii) Wildlife Conflict Management** only. The third category, Wildlife Conservation Awareness, was not considered due to submission of a single nomination only, which was decided to be considered in the next year.

The recipients of Wildlife Conservation Award, 2020 were:

13.10.2 CATEGORY OF AWARD - Award for Protection and Rescue of Wildlife

| Name of Division | Name of the person / association | Rank |
|---------------------------|--|-----------------|
| Buxa Tiger Reserve (West) | Shri Amolendu Majhi Range Officer and Staff of Bharnabari Beat | Selected |
| Buxa Tiger Reserve (East) | DFD, Buxa Tiger Reserve (East) and his team | Selected |
| Medinipur Division | Smt. Shrabani De, R.O., Lalgah Forest Range Office, Shri Lakshmikanta Mahata, Beat Officer, Jhitka Forest Beat Office | Selected |

13.10.3 CATEGORY OF AWARD - Award for Wildlife Conflict Management

| Name of Division | Name of the person / association | Rank |
|---------------------------|----------------------------------|-----------------|
| Buxa Tiger Reserve (East) | DFD, Buxa Tiger Reserve (East) | Selected |





14.1 INTRODUCTION

The State of West Bengal represents a wide range of agro-climatic zones, soil profiles and accordingly a wide range of forest types, as in hilly terrain of North Bengal hills, terai and dooars, Gangetic plains, lateritic tract of south Bengal with mangrove forest in Sunderbans, which provides huge scope for research and development.

Forestry Research in West Bengal has been initiated since long and has resulted in the standardisation of different Silvicultural practices, identification of suitable species, sources of regeneration material, introduction of clonal material, inventorisation of plant resources and medicinal plants etc.

Research Circle of the Directorate organises and implement research activities of the State Forest through three Divisions located at Darjeeling, Siliguri and Midnapore to cover this wide range of vegetation type and agro-climatic zones.

14.2 MAJOR MANDATE OF THE RESEARCH WING

1. Tree improvement for enhancing plantation productivity.
2. Supply of quality planting material (QPM).
3. Biodiversity studies on changes in natural forests, plantations and effect of climate change on them.
4. Ex-situ and in-situ conservation.
5. Study on carbon stock and carbon sequestration and
6. Medicinal plants conservation.
7. Identification of Rare Endangered Threatened (RET) species.
8. Updating of nursery and plantation protocols.
9. Mapping of forest soil nutrient and develop prescription for amelioration.
10. Growing stock assessment of forests for working plans and marking for Silvicultural thinning of plantations.

14.3 PHYSICAL INFRASTRUCTURE WITH THE WING

14.3.1 Permanent Research Areas – 255 ha.

| Division | Location | Area | Major activities |
|--------------------|-----------------------|-------|---|
| Silviculture South | Arabari, Midnapore | 40 ha | 1. Setting up of Clonal seed Orchards. 2. Herbal Garden. 3. Clonal hedges for large scale production of vegetative cuttings. 4. Mist Chamber and hardening chamber. 5. Progeny and provenance trials. 6. Comparative growth studies. 7. Performance trial for the clones. 8. Species introduction trial. |
| | Maitybandh, Khatra | 50 ha | |
| | Nunnungeria, Jhargram | 20 ha | |
| | Hura, Purulia | 10 ha | |
| Silviculture North | Salugara | 35 ha | |
| | Lataguri | 30 ha | |
| | Atiamochar | 5 ha | |
| Silviculture Hills | Khoklong, Sukna | 30 ha | |
| | Sonada | 20 ha | |
| | Sukhiapokhri | 10 ha | |
| | Lebong | 5 ha | |



14.3.2. Seed stands, Seedling seed orchards and Clonal seed Orchards –

| | No of species | No of Plots | Area |
|---------------------|---------------|-------------|-----------|
| Seed stands | 70 | 239 | 573.43 ha |
| SSO | 15 | 25 | 117.5 ha |
| Clonal seed Orchard | 5 | 12 | 9 ha |

14.3.3 Plus trees and Candidate plus trees

| No of species | No of Plus trees | No of species | No of Candidate Plus trees |
|---------------|------------------|---------------|----------------------------|
| 68 | 1094 | 73 | 1554 |

14.3.4 Permanent Preservation Plots

| Name of Division | Nature of plots | No of plot | Area |
|--------------------|-----------------|------------|---------|
| Silviculture Hills | Permanent plot | 20 | 250 ha |
| | LSP | 1 | 4.5 ha |
| | Sample plot | 76 | 41 ha |
| Silviculture North | Permanent plot | 2 | 16 ha |
| | LSP | 2 | 4.4 ha |
| | Sample Plot | 3 | 0.6 ha |
| Silviculture South | Permanent plot | 10 | 39 ha |
| | Sample plot | 6 | 4.25 ha |

14.3.5 Soil testing Laboratory

At Salugara and Midnapore under Silviculture North and South Division respectively and presently Salugara Soil Laboratory are functional.

14.3.6 Nurseries

| Division | Sl | Name | Location | Capacity |
|--------------------|----|--------------------------------|---------------|----------|
| Silviculture North | 1 | Rajabhatkhawa Research Nursery | Rajabhatkhawa | 0.60 |
| | 2 | Lataguri Research Nursery | Lataguri | 2.00 |
| | 3 | Salugara Research Nursery | Salugara | 0.60 |
| Silviculture South | 4 | Amlachati Research Nursery | Amalachati | 2.00 |
| | 5 | Arabari Research Nursery | Arabari | 2.00 |
| | 6 | Beliatore Research Nursery | Beliatore | 2.00 |
| | 7 | Hura Research Nursery | Hura | 0.50 |
| | 8 | Hatirampur Research Nursery | Hatirampur | 2.00 |
| Silviculture Hills | 9 | Sonada Research Nursery | Sonada | 0.30 |
| | 10 | Takdah Research Nursery | Takdah | 0.20 |
| | 11 | Sukna Research Nursery | Sukna | 2.00 |
| | 13 | Bhuttabari Research Nursery | Bhuttabari | 0.40 |
| | 14 | Lava Research Nursery | Lava | 0.50 |
| | 15 | Kalimpong Research Nursery | Kalimpong | 0.20 |



14.4 TREE IMPROVEMENT PROGRAM

14.4.1 Maintenance of Plus trees

| Name of Divisions | Creation of new Plus tree | Evaluation of Plus tree during 2020-21 |
|-----------------------------|---------------------------|--|
| Silviculture North Division | Nil | 140 nos. |
| Silviculture South Division | 58 nos. | 58 nos. |
| Silviculture Hills Division | Nil | 100 nos. |

14.4.2 Quality Planting materials raised and Distributed

Seeds are collected from the seed stands/Plus trees are supplied to the user Divisions for raising plantations after certification. During 2020-21 following seeds and seedlings are supplied to the user Divisions.

| Name of Divisions | QPM raised (No) | QPM distributed | Certified seeds supplied (Kg) |
|-----------------------------|-----------------|-----------------|-------------------------------|
| Silviculture North Division | Nil | Nil | 377.400 |
| Silviculture South Division | 82500 nos. | Nil | 2425.05 |
| Silviculture Hills Division | Nil | Nil | 650 |

14.4.3 Creation and maintenance of seed stands

| Name of Divisions | Plantation for Seed stands created | Seed stands maintained during 2020-21 |
|-----------------------------|------------------------------------|---------------------------------------|
| Silviculture North Division | 20 ha | 40 ha |
| Silviculture South Division | 20.50 ha | 25 ha |
| Silviculture Hills Division | 14 ha | 60 ha |

14.4.4 Clonal Multiplication Area

| Region | Area | Creation | Species |
|------------------------|------|----------|----------------------------------|
| Silviculture Hills Div | 0.5 | 2019-20 | Castanopsis species – 0.5 Ha |
| Silviculture North Div | 2 ha | 2019-20 | Chikrashi and Jarul 1.00 ha each |
| Silviculture South Div | 0.5 | 2019-20 | Acacia Hybrid |

14.5.1 Experimental trials and continuation of the older trials - 2020-21

| Sl No | Name of the trial | Objective | Division | Remarks |
|-------|--|---|---------------------|---|
| 1. | Study of growth of seedling grown in different size of hycopot in experimental plantation. | To study the impact of the size of the root trainer in growth of seedling of 10 diff sp in plantation | Silvi South | 2 nd year result compiled. Final result will be studied at 5 th year. |
| 2. | Germination trial after pre-treatment of seeds with chemical agents. 22 species tried. | To study the effect of pre-treatment to break seed dormancy | All three Divisions | Done in Silvi (Hill) Divn. With seeds of Castonopsis Sp. And Quercus sp. No significant result found. |



| Sl No | Name of the trial | Objective | Division | Remarks |
|-------|--|---|------------------------------|--|
| 3. | Vegetative propagation – Standardisation of hormone concentration for rooting of hard cutting for different species | To develop standard protocol for large production of vegetative cuttings. | All three Divisions | Done for Castanopsis, Champ, Pakasaj and Panisaj. Significant result not obtained. |
| 4. | Vegetative propagation – Development of protocol for raising soft cutting for tree species. Species tried – Gamar, Chikrashi, Panisaj and Champ. | To develop standard technique using tender epicormic branch | Silvi North | Chikrashi shows promising rooting. |
| 5. | Study of eradication of Lantana camera after mechanical removal followed by tree sapling planting. | To develop effective weed eradication method from forest. | Silvi North | It is under progress. |
| 6. | Raising Grafted seedling for creation of clonal seed orchard. | | Silvi South and Silvi Hills. | Grafted seedling raised successfully for Arjun, Piasal and Holoptelea sp. |

14.5.2 Maintenance of experiment //trial plantation

| Name of Divisions | Trial Plantation maintained | No of experiment continued |
|-----------------------------|-----------------------------|----------------------------|
| Silviculture North Division | 21.3 ha | 6 |
| Silviculture South Division | 20.5 ha | 9 |
| Silviculture Hills Division | 12 ha | 6 |

14.6. MAINTENANCE OF PRESERVATION PLOT, SAMPLE PLOT AND LINEAR SAMPLE PLOT

| Name of Division | Nature of plots | No of plot | Area | Study during 2019 - 20 |
|--------------------|-----------------|------------|--------|--------------------------|
| Silviculture Hills | Permanent plot | 20 | 250 ha | Not done during 2019-20 |
| | LSP | 1 | 4.5 ha | |
| | Sample plot | 76 | 41 ha | |
| Silviculture North | Permanent plot | 2 | 16 ha | Not done during 2019-20 |
| | LSP | 2 | 4.4 ha | |
| | Sample Plot | 3 | 0.6 ha | |
| Silviculture South | Permanent plot | 10 | 39 ha | Surveyed and documented. |
| | LSP | – | – | |
| | Sample plot | – | 4 ha | |



14.7 ARBORETUM AND BIO-DIVERSITY PARK MAINTAINED DURING 2019—20

| SL No | Name of Park | District | Year of creation | Area | Division | No of Species present |
|-------|-----------------------|------------|------------------|------|-------------|---|
| 1. | Ghum-Bhanjang | Darjeeling | 1994 | 7.00 | Silvi Hills | Trees –96 spp Shrubs 80 spp Orchids – 67spp Med Plants –98 spp |
| 2. | Delo | Kalimpong | 1994 | 2.17 | Silvi Hills | Trees – 98 spp Shrubs 42 spp Bamboo – 8 spp |
| 3. | Sukna | Darjeeling | 1942 | 6.00 | Silvi Hills | Trees – 75 sp. |
| 4. | Khunia | Jalpaiguri | 1995 | 1.25 | Silvi North | Trees – 167 sp. |
| 5. | Rasik Bill/Atiamochar | Coochbehar | 2006 | 1.00 | Silvi North | Trees – 78 sp. |
| 6 | Midnapore | Jhargram | | 1.30 | Silvi South | Trees – 68 sp. |

14.8 LLOYD BOTANICAL GARDEN

The Lloyd Botanical Garden, Darjeeling was established in 1878. The garden is located at an elevation of 6000 ft and covers an area of 40 acres. It has 161 tree species, 40 species of climbers and 114 species of orchids. The garden has a Herbarium with about 14000 sheets representing 175 families, 1145 genera and 3584 species. Besides this garden has a very good collection of books on plant kingdom. Digitisation of both the herbarium and library is in progress to make these unique resources available to visitors.

14.9 CONSERVATION OF MEDICINAL PLANTS–MEDICINAL PLANTS CONSERVATION PROJECTS UNDER NMPB, GOVT OF INDIA

The National Medicinal Plant Board has sanctioned three projects during 2015 which is still going on. The Projects are

14.9. a.1 Revisit to Old MPCA

Seven numbers Medicinal Plants Conservation Area (MPCA) were constituted during 2006-07 and a study of these old MPCAs are in progress to monitor the effort given for the conservation and consolidation of population of flagship species.

Old MPCA

| SI No | Name of MPCA | Location | Area | Remarks |
|-------|---------------------|---------------------|--------|---|
| 1 | Tonglu | Darjeeling | 230 Ha | Survey is going on for the project of Revisit of Old MPCA under NMPB. |
| 2 | Dhotrey | Darjeeling | 180 Ha | |
| 3 | North Sevok | Darjeeling Wildlife | 100 Ha | |
| 4 | Surshuti | Jalpaiguri | 100 Ha | |
| 5 | North Rajabhatkhawa | BTR East | 400 Ha | |
| 6 | Garpanchkote | Purulia | 250 Ha | |
| 7 | Bonnie Camp | 24 Parganas South | 300 Ha | |



14.9. a.2 Creation of New MPCA

7 new MPCA were established during 2013-14 and study is in progress for formulation of management plan to provide protection to the rare and endangered medicinal plants.

| Sl No | Name of MPCA | Location | Area | Remarks |
|-------|--------------|---------------------|--------|--|
| 1 | Panchnai | Darjeeling Wildlife | 200 Ha | Mapping & Floral inventorization and management plans were prepared. They are now monitored as per the prescription of management plan. Balance study of inventorization, carbon estimation and developing nursery protocol for the flagship species is continuing |
| 2 | Phalut | Darjeeling Wildlife | 200 Ha | |
| 3 | Rachela | Gorumara Wildlife | 200 Ha | |
| 4 | Bichabhanga | Jalpaiguri | 200 Ha | |
| 5 | Jhalda | Purulia | 200 Ha | |
| 6 | Kankrajhore | Jhargram | 300 Ha | |
| 7 | Susunia | Bankura | 300 Ha | |

14.9. a.3 JFMC Project

Augmentation of medicinal plants through plantations in forests as well as creation of infra structure to facilitate marketing of medicinal plants with the involvement of JFMC members –

Under this project 225 JFMCs are involved, 480 ha of plantation and inter crop were raised under 9 Divisions viz. Medinipur, Jhargram, Kharagpur, Rupnarayan, Bankura(S), Bankuar(N), Bishnupur, Kangsabati(N), Kangsabati(S) Purulia. The infrastructure for processing and storage of the product from medicinal tree and herb plantations has been constructed at all the Divisions.

14.9.b Ex situ Conservation of Medicinal Plants –Ex situ conservation works includes creation and maintenance of Herbal Garden and demonstration plots.

Herbal Gardens

| Name of Herbal Garden | Location | Area | No of bed | No of species planted | Remarks |
|-----------------------|----------------------------|----------|-----------|-----------------------|---|
| Amlachati | Amlachati, Jhargram | 2 ha | 468 | 704 | One of the largest ex situ conservation plot for medicinal plant. |
| Digha | Digha, Purba Medinipore | 0.095 ha | 70 | 146 | |
| Rajabhatkhawa | Rajabhatkhawa, Alipurduar. | 0.5 ha | 122 | 156 | |
| Takdah | Takdah, Darjeeling | 0.3 ha | 55 | 85 | |
| Salugara | Salugara | 1.0 Ha | – | – | Work in progress |
| Amkhoi | Ilambazar, Birbhum | 0.53 ha | – | – | |

14.10. a Soil Testing Program

| Soil Lab | Sample tested for plantation soil | Sample tested for soil map |
|--------------------|-----------------------------------|----------------------------|
| Midnapore Soil Lab | – | – |
| Salugara Soil Lab | 198 | 667 |



14.10.b Seed Testing Laboratory

A seed testing Laboratory, along with Seed godown and seed drying platform is at Salugara under Silviculture North Division. Seed processing, drying and germination test are conducted here.

14.11 CAMPA

Maintenance of 53 ha plantation raised during 2019-20 was done and raised 200000 tall seedling. The Research Nurseries and conservation plots were maintained.

14.12 RESEARCH PROJECTS UNDER WBFBCP

14.12.1 Mapping of forest soil nutrient status of North Bengal Plains

To estimate Organic Carbon, available Nitrogen, Phosphorus, Potassium, Calcium, Magnesium and Sulphur over 2000 sample to prepare deficiency/sufficiency map with an objective to assess nutritional status before raising plantations. The forest compartment covered the Baikunthapur, Jalpaiguri, Coochbehar, part of Buxa TR, Jaldapara and Kurseong Division.

The study is executing by Silviculture North Division with assistance from SLUSI, Ministry of Agriculture, GOI. Field work, Lab analysis has been completed and the final report will be brought out during next year.

14.12.2 Tree improvement program in *Acacia auriculiformis*

Six promising clones of Acacia hybrid, six provenances from Karnataka and four from West Bengal is planted in three location in West Bengal for trial during 2018-19. The growth of some clones and provenances are promising. The analysis of growth will be completed during 2021-22 and the promising clones and provenances will be selected for use in plantations.

14.12.3 Seed Stands – evaluation of existing seed stands

Objective – To assess the condition of the existing seed stands over – ha. Asses the quality and quantity of seed production potential of the seed stand and to eliminate the bad seed stands.

IFP, Ranchi conducted the study from 2019-20 and submitted draft final report of the study. The final report will be brought out after verification in the field.

14.12.4 Evaluation and identification of new plus trees

Objective – to evaluate the performance of individual plus trees. To identify new plus trees, candidate plus trees for – no. of species throughout the state of West Bengal. IFP, Ranchi is conducting the study and they have completed the field work and submitted draft report of the study. Final report will be brought out during next year, after verification in the field and its approval.

14.12.5 Tree improvement program in Teak

Objective – To select better clone for raising planting material for Plantations.

The provenances from Kerala was planted for trial at Arabari, Beliatare, Ranibandh, Atiamochar and Sukna during 2019-20. The growth study will continue for next five years to achieve the result of the experiment. Five different clones brought from KFRI and one provenance from West Bengal are tried.

Three Divisions under Research Circle are conducting the study. 2nd year results has been compiled and the final report will be compiled after taking third year data.

14.12.6 Development of protocol for raising tall seedling

Objective – To find the best and economic method on suitable potting mixture, pot size, irrigation schedule and spacing. Works going on and results will be analysed and compiled during next year.

14.12.7 Inoculation of Agarwood

Agarwood produce an oil which is very costly and has great demand. This species was introduced in West Bengal in 2011-12, but the natural infection is not there so this project is taken to inoculate the trees for production of Agarwood.

Objective

- i. To inoculate the standing more than hundred trees of *Aquilaria malaccensis* for development of Agarwood essential oil on pilot basis.
- ii. Evaluation of the success rate so as to extend it to other trees of the said species in future.
- iii. Training of staff and skill development.

Inoculation has been done in collaboration with RFRI, Jorhat and the result will be studied after one year.



14.12.8 Biodiversity study

The Research Project “Long Term Monitoring of Forest Vegetation Diversity in West Bengal : Establishment and Profiling of Monitoring Plots” originally titled “A Floristic and Associated Avian Survey of the Forest Areas of South West and North Bengal Plains to monitor changes in the population structure to initiate suitable conservation measures” was coordinated by the Research Monitoring & Development Wing of the Forest Directorate through the Conservator of Forests, Research Circle. The financial assistance was provided by the Japan International Cooperation Agency (JICA) through the West Bengal Forest & Biodiversity Conservation Project (WBFBCP).

Objective

- i. To establish permanent ‘monitoring plots in representative forest areas’ of South West Bengal and North Bengal Plains for monitoring the population of the indigenous vegetation and bird species with GPS readings (Virtual demarcation).
- ii. To prepare an inventory of trees, shrubs and herbs and associated bird species for each of the ‘monitoring plots’ for long term monitoring.
- iii. To elucidate various Indices from the inventory of the indigenous vegetation and bird species collected through the survey.
- iv. Revisiting the site every five/ten years to collect data as the case may be.

Field work has already been completed and the report will be published during next year.



MONITORING OF PLANTATIONS

CHAPTER - 15

15.1 OBJECTIVES

Monitoring and Evaluation of Forest Plantations created by Forest Directorate, Government of West Bengal are being conducted by the Monitoring Circle since last three decades. It is the regular conservations and recording of status of Survival, Height and other parameters in 1st year, 3rd year and 5th year plantations. Deviations from the Working Plan Prescription if any are also monitored. Monitoring involves giving feedback regarding the progress of the plantations to the fund lenders, implementing and beneficiaries so that the gathered information can be used in decision making for improving the plantation performance in future.

Survey, Monitoring and Evaluation of Forest Plantations is done by Monitoring Circle with two divisions, namely, Monitoring (North) and Monitoring (South) Division under its jurisdiction. Monitoring (N) division with headquarter at Siliguri covers the hilly areas of Darjeeling, Kalimpong, Kurseong and plains of Dooars and Terai region while Monitoring(South) Division with headquarters at Kolkata covers the area of South Bengal. Monitoring Circle is headed by CF, Monitoring and works under the guidance of CCF, Monitoring & Evaluation; APCCF, Research & Monitoring and PCCF, Research, Monitoring & Development, West Bengal.

15.2 MONITORING METHODOLOGIES

New Monitoring Methodology

In the earlier method of plantation monitoring emphasis was given only on the weighted survival percentage for assessment of plantation quality. Although the data on height and girth at breast height were recorded but little use were made of those data in analysis of the quality of the plantation. The present adopted method of plantation monitoring emphasizes on the different parameters which are prerequisites for raising a good quality plantation. Ten

such parameters have been identified. These parameters have been broadly classified into following three categories.

1. **Conformity** to the existing rules, provisions and guidelines.
2. **Execution** of Plantation works in the field.
3. **Performance** of the plantation.

Each category has been assigned a score which varies with the age of the plantation, but the total score is kept 100 for all age category of the plantation. The total score of each category is sub divided among the parameters grouped under each category. The detail of parameter in each group is given below

- **Conformity** to the existing rules, provisions and guidelines consists of four parameters-
 1. Legal status of land.
 2. Source of seed & status of nursery.
 3. Maintenance of plantation journal, regeneration plan.
 4. Planting pattern.
- **Execution** of Plantation works in the field consists of four parameters-
 1. Site quality & choice of species.
 2. Mechanism to protect plantation.
 3. Timely completion of prescribed plantation activities.
 4. Inspection intensity by supervising officers.
- **Performance** of the plantation consists of two parameters
 1. Average survival percentage of seedling under different schemes during 1st, 3rd, 5th year.
 2. Reflection of general health of plantation by average height of seedlings under different scheme of 1st, 3rd & 5th year of plantation. For the 5th year old plantation another growth parameter which is girth at breast height (GBH) is recorded as a measure of performance.



Each parameter is assigned a maximum score which diminishes with the gradual non achievement of the definite parameters and reflected in score. The category and parameters have been standardized separately for 1st, 3rd & 5th year old plantation with year (age) specific assigned score.

The detail of score for each category is given below

Table 15.1: Scoring Index for 1st year old plantation

| Broad category | Detail of parameters | Score |
|---|--|------------|
| Conformity to the existing rules, provisions and guidelines. | Legal status of the land. | 3 |
| | Source of seed and status of nursery. | 3 |
| | Maintenance of plantation journal along with regeneration map. | 3 |
| | Planting pattern. | 3 |
| Execution of Plantation works in the field. | Site quality & choice of species. | 5 |
| | Mechanism to protect plantation. | 5 |
| | Timely completion of prescribed plantation activities. | 5 |
| | Inspection intensity by supervising officers. | 5 |
| Performance of the plantation. | Average survival percentage | 51 |
| | General health of plantation | 17 |
| Total | | 100 |

Table 15.2: Scoring Index for 3rd year old plantation

| Sl. No. | Detail of parameters | Score |
|--------------|---|------------|
| 1 | Maintenance of plantation journal along with regeneration map | 5 |
| 2 | Mechanism to protect plantation | 5 |
| 3 | Infilling with big size seedling | 10 |
| 4 | Timely completion of prescribed plantation activity | 5 |
| 5 | Inspection intensity by supervising officers | 5 |
| 6 | Average Survival Percentage | 51 |
| 7 | General health of the seedling (Height) | 19 |
| Total | | 100 |

Table 15.3: Scoring index for 5th year old plantation

| Sl. No. | Detail of parameters. | Score |
|--------------|---|------------|
| 1 | Maintenance of plantation journal along with regeneration map | 3 |
| 2 | Mechanism to protect plantation | 5 |
| 3 | Inspection intensity by supervising officers | 5 |
| 4 | Average Survival Percentage | 56 |
| 5 | General health of the seedling (Height) | 21 |
| 6 | Average GBH of seedling | 10 |
| Total | | 100 |



Table 15.4: Table for colour code




| Grade | Score (1 st) | Score (3 rd) | Score (5 th) | Color code |
|-----------|--------------------------|--------------------------|--------------------------|---|
| Excellent | > 85 | > 75 | > 60 |  |
| Very Good | > 70 – 85 | > 60 – 75 | > 44 – 60 | |
| Good | > 45 – 70 | > 45 – 60 | > 29 – 44 |  |
| Average | > 30 – 45 | > 30 – 45 | > 15 – 29 |  |
| Poor | < = 30 | < = 30 | < = 15 | |

Table 15.5: Area Statement for Monitoring South Division Schemes & Year wise Plantations created and Monitored

| Sl. No. | Scheme of Plantation | 1 st Year (2019) | | 3 rd Year (2017) | | 5 th Year (2015) | | Grand Total of the three years | |
|--------------|----------------------|-----------------------------|---------------|-----------------------------|-------------|-----------------------------|----------------|--------------------------------|-----------------|
| | | Total area | Monitored | Total area | Monitored | Total area | Monitored | Total area | Monitored |
| 1 | Bamboo | 95 | 95 | 180 | 180 | 724 | 724 | 999 | 999 |
| 2 | CMM | 250 | 250 | 430 | 430 | 450 | 450 | 1130 | 1130 |
| 3 | CSB | 50 | 50 | 20 | 20 | 90 | 90 | 160 | 160 |
| 4 | FT-Sal | 580.5 | 580.5 | 227 | 227 | 421 | 421 | 1228.5 | 1228.5 |
| 5 | Medicinal | 0 | 0 | 0 | 0 | 20 | 20 | 20 | 20 |
| 6 | QGS | 4244.7 | 4244.7 | 2499 | 2499 | 4103.44 | 4103.44 | 10847.14 | 10847.14 |
| 7 | Strip Pltn. | 300 | 300 | 25 | 25 | 345 | 345 | 670 | 670 |
| Total | | 5520.2 | 5520.2 | 3381 | 3381 | 6153.44 | 6153.44 | 15054.64 | 15054.64 |

Table 15.5.1: Division wise performance (under various schemes) for 2019 creation 1st year monitoring by Monitoring (South) Division

| Division | Bamboo | | CMM | | CSB | | FT-Sal | | QGS | | Strip Pltn. | | Total Area (Ha) | Division wise WPS |
|-------------|--------|-----|------|-----|------|-----|--------|-----|-------|-----|-------------|-----|-----------------|-------------------|
| | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | | |
| 24-Pgs. (S) | – | – | 170 | 30 | – | – | – | – | – | – | 45 | 34 | 215 | 31 |
| Bankura (N) | – | – | – | – | – | – | 30 | 96 | 481.7 | 92 | 10 | 86 | 521.7 | 92 |
| Bankura (S) | – | – | – | – | – | – | 55 | 96 | 963 | 92 | – | – | 1018 | 92 |
| Birbhum | – | – | – | – | – | – | – | – | 126 | 82 | – | – | 126 | 82 |
| Burdwan | 5 | 84 | – | – | – | – | 33 | 86 | 220 | 83 | 50 | 72 | 308 | 81 |
| Durgapur | – | – | – | – | – | – | – | – | 55 | 78 | – | – | 55 | 78 |
| EFD | – | – | – | – | – | – | – | – | – | – | 40 | 85 | 40 | 85 |
| Howrah | – | – | – | – | – | – | – | – | – | – | 65 | 69 | 65 | 69 |
| Jhargram | – | – | – | – | – | – | 25 | 91 | 169 | 80 | – | – | 194 | 81 |
| Kharagpur | – | – | – | – | – | – | 60 | 79 | 209 | 75 | 20 | 64 | 289 | 75 |



| Division | Bamboo | | CMM | | CSB | | FT-Sal | | QGS | | Strip Pltn. | | Total Area (Ha) | Division wise WPS |
|--------------|-----------|-----------|------------|-----------|-----------|-----------|--------------|-----------|---------------|-----------|-------------|-----------|-----------------|-------------------|
| | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | | |
| KNG(N) | 30 | 83 | – | – | – | – | 20 | 89 | 367 | 89 | – | – | 417 | 89 |
| KNG(S) | 30 | 73 | – | – | – | – | 30 | 69 | 220 | 81 | – | – | 280 | 79 |
| Midnapur | – | – | – | – | – | – | 118 | 88 | 187 | 92 | – | – | 305 | 90 |
| N & M | – | – | – | – | – | – | – | – | 40 | 48 | 15 | 58 | 55 | 51 |
| Panchet | – | – | – | – | – | – | 30 | 95 | 570 | 98 | – | – | 600 | 98 |
| PMID | – | – | 50 | 73 | 50 | 97 | – | – | – | – | 55 | 88 | 155 | 86 |
| Purulia | 30 | 64 | – | – | – | – | 20 | 92 | 307 | 82 | – | – | 357 | 81 |
| RPN | – | – | – | – | – | – | 159.5 | 78 | 330 | 80 | – | – | 489.5 | 80 |
| STR | – | – | 30 | 46 | – | – | – | – | – | – | – | – | 30 | 46 |
| Total | 95 | 74 | 250 | 41 | 50 | 97 | 580.5 | 85 | 4244.7 | 88 | 300 | 70 | 5520.2 | 84 |

Table 15.5.2: Division wise performance (under various schemes) for 2017 creation 3rd year monitoring by Monitoring (South) Division

| Division | Bamboo | | CMM | | CSB | | FT-Sal | | QGS | | Strip Pltn. | | Total Area (Ha) | Division wise WPS |
|--------------|------------|-----------|------------|-----------|-----------|-----------|------------|-----------|-------------|-----------|-------------|-----------|-----------------|-------------------|
| | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | | |
| 24-Pgs. (S) | – | – | 400 | 45 | – | – | – | – | – | – | – | – | 400 | 46 |
| Bankura (N) | 90 | 66 | – | – | – | – | – | – | 260 | 61 | – | – | 350 | 62 |
| Bankura (S) | – | – | – | – | – | – | 20 | 74 | 550 | 70 | – | – | 570 | 70 |
| Birbhum | – | – | – | – | – | – | 10 | 79 | 100 | 71 | – | – | 110 | 72 |
| Burdwan | – | – | – | – | – | – | 20 | 83 | 100 | 71 | – | – | 120 | 73 |
| Durgapur | – | – | – | – | – | – | 10 | 82 | 110 | 63 | – | – | 120 | 64 |
| EFD | – | – | – | – | – | – | – | – | – | – | 25 | 43 | 25 | 43 |
| Jhargram | – | – | – | – | – | – | 14 | 56 | 309 | 44 | – | – | 323 | 44 |
| Kharagpur | – | – | – | – | – | – | 20 | 64 | 105 | 65 | – | – | 125 | 64 |
| KNG(N) | 30 | 31 | – | – | – | – | – | – | 50 | 62 | – | – | 80 | 50 |
| KNG(S) | 30 | 10 | – | – | – | – | 20 | 57 | 80 | 50 | – | – | 130 | 42 |
| Midnapur | – | – | – | – | – | – | 35 | 30 | 276 | 57 | – | – | 311 | 54 |
| N & M | – | – | – | – | – | – | – | – | 55 | 44 | – | – | 55 | 47 |
| Panchet | 30 | 41 | – | – | – | – | – | – | 169 | 75 | – | – | 199 | 70 |
| PMID | – | – | 30 | 61 | 20 | 72 | – | – | – | – | – | – | 50 | 66 |
| Purulia | – | – | – | – | – | – | 30 | 43 | 120 | 50 | – | – | 150 | 49 |
| RPN | – | – | – | – | – | – | 48 | 62 | 215 | 64 | – | – | 263 | 63 |
| Total | 180 | 46 | 430 | 47 | 20 | 72 | 227 | 58 | 2499 | 61 | 25 | 32 | 3381 | 59 |



Table 15.5.3: Division wise performance (under various schemes) for 2015 creation 5th year monitoring by Monitoring (South) Division

| Division | Bamboo | | CMM | | CSB | | FT-Sal | | Medicinal | | QGS | | Strip Pltn. | | Total Area (Ha) | Division wise WPS |
|--------------|------------|-----------|------------|-----------|-----------|-----------|------------|-----------|-----------|-----------|----------------|-----------|-------------|-----------|-----------------|-------------------|
| | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | | |
| 24-Pgs. (S) | – | – | 390 | 32 | – | – | – | – | – | – | – | – | 35 | 32 | 425 | 34 |
| Bankura (N) | 59 | 38 | – | – | – | – | – | – | – | – | 158 | 75 | – | – | 217 | 65 |
| Bankura (S) | 120 | 13 | – | – | – | – | 120 | 55 | – | – | 850 | 69 | – | – | 1090 | 61 |
| Birbhum | – | – | – | – | – | – | – | – | – | – | 132 | 59 | – | – | 132 | 59 |
| Burdwan | – | – | – | – | – | – | 10 | 69 | – | – | 85 | 49 | 120 | 49 | 215 | 50 |
| Howrah | – | – | – | – | – | – | – | – | – | – | – | – | 60 | 79 | 60 | 79 |
| Jhargram | 50 | 12 | – | – | – | – | 50 | 28 | – | – | 501.44 | 51 | – | – | 601.44 | 46 |
| Kharagpur | 10 | 0 | – | – | – | – | 20 | 50 | – | – | 323 | 50 | 70 | 61 | 423 | 50 |
| KNG(N) | 75 | 20 | – | – | – | – | 41 | 36 | – | – | 319 | 50 | – | – | 435 | 45 |
| KNG(S) | 100 | 5 | – | – | – | – | 40 | 44 | – | – | 145 | 38 | – | – | 285 | 27 |
| Midnapur | – | – | – | – | – | – | 50 | 35 | – | – | 450 | 65 | – | – | 500 | 62 |
| N & M | – | – | – | – | – | – | – | – | – | – | 15 | 54 | – | – | 15 | 54 |
| Panchet | 220 | 26 | – | – | – | – | – | – | – | – | 480 | 76 | – | – | 700 | 61 |
| PMID | – | – | 60 | 53 | 90 | 78 | – | – | – | – | – | – | 60 | 81 | 210 | 72 |
| Purulia | 60 | 8 | – | – | – | – | – | – | – | – | 210 | 23 | – | – | 270 | 23 |
| RPN | 30 | 3 | – | – | – | – | 90 | 36 | 20 | 59 | 435 | 67 | – | – | 575 | 58 |
| Total | 724 | 18 | 450 | 35 | 90 | 78 | 421 | 42 | 20 | 59 | 4103.44 | 60 | 345 | 61 | 6153.44 | 53 |

Table 15.6: Area Statement for Monitoring North Division Schemes & Year wise Plantations created and Monitored

| SL No. | Scheme of Plantation | 1 st Year (2019) | | 3 rd Year (2017) | | 5 th Year (2015) | | Grand Total of Three Years | |
|--------|----------------------|-----------------------------|---------------------|-----------------------------|---------------------|-----------------------------|---------------------|----------------------------|---------------------|
| | | Total Area (Ha) | Monitored Area (Ha) | Total Area (Ha) | Monitored Area (Ha) | Total Area (Ha) | Monitored Area (Ha) | Total Area (Ha) | Monitored Area (Ha) |
| 1 | Eco Misc | 495.07 | 495.07 | 411.11 | 411.11 | 669.26 | 669.26 | 1575.44 | 1575.44 |
| 2 | Eco Sal | 34.00 | 34.00 | 60.01 | 60.01 | 145.45 | 145.45 | 239.46 | 239.46 |
| 3 | Grass Fodder | 505.00 | 505.00 | 400.00 | 400.00 | 40.00 | 40.00 | 945.00 | 945.00 |
| 4 | STRIP | 500.00 | 500.00 | 125.00 | 125.00 | 325.75 | 325.75 | 950.75 | 950.75 |
| 5 | Bamboo | – | – | – | – | 130.00 | 130.00 | 130.00 | 130.00 |
| 6 | RKVY | – | – | – | – | 128.00 | 128.00 | 128.00 | 128.00 |



| SL No. | Scheme of Plantation | 1 st Year (2019) | | 3 rd Year (2017) | | 5 th Year (2015) | | Grand Total of Three Years | |
|-----------------|----------------------|-----------------------------|---------------------|-----------------------------|---------------------|-----------------------------|---------------------|----------------------------|---------------------|
| | | Total Area (Ha) | Monitored Area (Ha) | Total Area (Ha) | Monitored Area (Ha) | Total Area (Ha) | Monitored Area (Ha) | Total Area (Ha) | Monitored Area (Ha) |
| 7 | CSS | – | – | – | – | | | | |
| 8 | PA | – | – | – | – | 45.00 | 45.00 | 45.00 | 45.00 |
| 9 | SFDA | – | – | – | – | 30.00 | 30.00 | 30.00 | 30.00 |
| 10 | RIDF | – | – | – | – | – | – | – | – |
| 11 | FDA | – | – | – | – | – | – | – | – |
| 12 | NP | – | – | – | – | – | – | – | – |
| 13 | Eco Cons. | – | – | – | – | – | – | – | – |
| 14 | NB Project | – | – | – | – | – | – | – | – |
| G. Total | | 1534.07 | 1534.07 | 996.12 | 996.12 | 1513.46 | 1513.46 | 4043.65 | 4043.65 |

Table 15.6.1: Division wise performance (under various schemes) for 2019 creation 1st year monitoring by Monitoring (North) Division

| Division/Scheme | Eco Misc. | | Eco Sal. | | STRIP | | Total Area (Ha) | Division Wise WPS |
|------------------------------|---------------|-----------|--------------|-----------|---------------|-----------|-----------------|-------------------|
| | Area | WPS | Area | WPS | Area | WPS | | |
| BTR (East) | 75.00 | 89 | – | – | – | – | 75.00 | 89 |
| BTR (West) | 50.00 | 91 | – | – | – | – | 50.00 | 91 |
| Darjeeling | 25.00 | 93 | – | – | – | – | 25.00 | 93 |
| Kurseong | 20.00 | 92 | – | – | – | – | 20.00 | 92 |
| Jalpaiguri Social Forestry | – | – | – | – | 30.00 | 81 | 30.00 | 81 |
| Siliguri Social Forestry | – | – | – | – | 130.00 | 94 | 130.00 | 94 |
| Raiganj | 15.00 | 97 | – | – | 255.00 | 97 | 270 | 97 |
| Malda | – | – | – | – | 50.00 | 96 | 50.00 | 96 |
| Baikunthapur | 22.00 | 97 | 14.00 | 74 | | | 36.00 | 88 |
| Coochbehar | 72.43 | 81 | | | 35.00 | 81 | 107.43 | 81 |
| Jalpaiguri | 50.00 | 69 | 20.00 | 68 | – | – | 70.00 | 69 |
| Jalpaiguri Soil Conservation | 70.00 | 97 | – | – | – | – | 70.00 | 97 |
| Kurseong Soil Conservation | 15.50 | 97 | – | – | – | – | 15.50 | 97 |
| Jaldapara Wild Life | 60.14 | 81 | – | – | – | – | 60.14 | 81 |
| Gorumara Wild Life | 20.00 | 48 | – | – | – | – | 20.00 | 48 |
| Total | 495.07 | 81 | 34.00 | 59 | 500.00 | 94 | 1029.07 | 89 |



Table 15.6.1(a): Division Wise Performance of Grass Fodder Plantations for 2019 Creation 1st Year Monitoring By Monitoring (North) Division Area in ha.

| Division / Scheme | Grass Fodder | | Total Area(Ha) | Division Wise WPS |
|---------------------|---------------|-----------|----------------|-------------------|
| | Area | WPS | | |
| Gorumara Wild Life | 130.00 | 69 | 130.00 | 69 |
| Jaldapara Wild Life | 275.00 | 68 | 275.00 | 68 |
| BTR (E) | 50.00 | 85 | 50.00 | 85 |
| BTR (W) | 50.00 | 75 | 50.00 | 75 |
| Total | 505.00 | 71 | 505.00 | 71 |

Table 15.6.2: Division wise performance (under various schemes) for 2017 creation 3rd year monitoring by Monitoring (North) Division

| Division/Scheme | Eco Misc. | | Eco Sal. | | STRIP | | Total Area (Ha) | 1 st Yr WPS | 3 rd Yr WPS |
|------------------------------|---------------|-----------|--------------|-----------|---------------|-----------|-----------------|------------------------|------------------------|
| | Area | WPS | Area | WPS | Area | WPS | | | |
| BTR (East) | 50.00 | 72 | – | – | – | – | 50.00 | 65 | 72 |
| BTR (West) | 50.00 | 63 | – | – | – | – | 50.00 | 76 | 63 |
| Darjeeling | 05.00 | 97 | – | – | – | – | 05.00 | 81 | 97 |
| Kurseong | – | – | 03.66 | 69 | – | – | 03.66 | 29 | 69 |
| Jalpaiguri Social Forestry | 30.00 | 70 | – | – | – | – | 30.00 | 76 | 70 |
| Siliguri Social Forestry | 20.00 | 47 | – | – | – | – | 20.00 | 70 | 47 |
| Raiganj | 35.00 | 94 | – | – | 125.00 | 94 | 160.00 | 90 | 94 |
| Malda | 10.00 | 73 | – | – | – | – | 10.00 | 91 | 73 |
| Baikunthapur | 14.11 | 67 | 22.52 | 79 | – | – | 36.63 | 76 | 74 |
| Coochbehar | 20.00 | 66 | – | – | – | – | 20.00 | 73 | 66 |
| Jalpaiguri | 30.00 | 30 | 15.00 | 64 | – | – | 45.00 | 65 | 41 |
| Jalpaiguri Soil Conservation | 50.00 | 68 | – | – | – | – | 50.00 | 60 | 68 |
| Kalimpong | 06.00 | 76 | – | – | – | – | 06.00 | 81 | 76 |
| Jaldapara Wild Life | 91.00 | 71 | 18.83 | 47 | – | – | 109.83 | 64 | 67 |
| Total | 411.11 | 67 | 60.01 | 60 | 125.00 | 94 | 596.12 | 62 | 72 |

Table 15.6.2(a): Division Wise Performance of Grass Fodder Plantations for 2017 Creation 3rd Year Monitoring By Monitoring (North) Division

| Division / Scheme | Grass Fodder | | Total Area (Ha) | 1 st Yr WPS | 3 rd Yr WPS |
|---------------------|---------------|-----------|-----------------|------------------------|------------------------|
| | Area | WPS | | | |
| Jaldapara Wild Life | 150.00 | 55 | 150.00 | 56 | 55 |
| Gorumara Wild Life | 150.00 | 54 | 150.00 | 47 | 54 |
| BTR (East) | 40.00 | 71 | 40.00 | 85 | 71 |
| BTR (West) | 60.00 | 66 | 60.00 | 78 | 66 |
| Total | 400.00 | 58 | 400.00 | 58 | 58 |

Area in ha.





Table 15.6.3: Division wise performance (under various schemes) for 2015 creation 5th year monitoring by Monitoring (North) Division

| Division/ Scheme | Eco Misc. | | Eco Sal. | | SFDA | | RKVY | | STRIP | | PA | | Bamboo | | Total Area (Ha) | 1 st Yr WPS | 3 rd Yr WPS | 5 th Yr WPS |
|---------------------|---------------|-----------|---------------|-----------|-----------|-----------|------------|-----------|---------------|-----------|-----------|-----------|------------|-----------|--------------------|---------------------------|---------------------------|---------------------------|
| | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | Area | WPS | | | | |
| Jaipalguri | 70 | 33 | 70.09 | 38 | 30 | 22 | - | - | - | - | - | - | - | - | 170.09 | 38 | 34 | 33 |
| Jaipalguri SC | 165.68 | 56 | - | - | - | - | 25 | 69 | - | - | - | - | - | - | 190.68 | 58 | 72 | 59 |
| Jaipalguri SF | - | - | - | - | - | - | - | - | 45.75 | 57 | - | - | - | - | 45.75 | 58 | 54 | 57 |
| Coochbehar | 30 | 33 | - | - | - | - | 7 | 33 | 35 | 39 | - | - | - | - | 72 | 78 | 28 | 33 |
| BTR East | 80 | 80 | - | - | - | - | - | - | - | - | - | - | - | - | 80 | 58 | 44 | 80 |
| Jadapara WL | 49.23 | 57 | 29.3 | 21 | - | - | - | - | - | - | - | - | 80 | 41 | 158.53 | 58 | 46 | 44 |
| BTR West | 80 | 68 | - | - | - | - | - | - | - | - | - | - | - | - | 80 | 78 | 58 | 68 |
| Kalimpong | - | - | - | - | - | - | - | - | - | - | 10 | 73 | - | - | 10 | 85 | 89 | 73 |
| Baikunthapur | 23.35 | 57 | 23.86 | 77 | - | - | - | - | - | - | - | - | - | - | 47.21 | 58 | 51 | 67 |
| Siliguri SF | - | - | - | - | - | - | - | - | 45 | 69 | - | - | - | - | 45 | 78 | 69 | 69 |
| Kurseong | 5 | 46 | 22.2 | 77 | - | - | - | - | - | - | 20 | 74 | - | - | 47.2 | 58 | 65 | 72 |
| Kurseong SC | 40 | 85 | - | - | - | - | - | - | - | - | 15 | 79 | - | - | 55 | 78 | 69 | 83 |
| Malda | 1 | 91 | - | - | - | - | - | - | 30 | 86 | - | - | - | - | 31 | 78 | 90 | 86 |
| Raiganj | 60 | 80 | - | - | - | - | 60 | 94 | 160 | 89 | - | - | 50 | 60 | 330 | 78 | 87 | 84 |
| Darjeeling | 50 | 92 | - | - | - | - | 36 | 94 | - | - | - | - | - | - | 86 | 78 | 71 | 93 |
| Darjeeling WL | 25 | 81 | - | - | - | - | - | - | - | - | - | - | - | - | 25 | 58 | 68 | 81 |
| Total | 679.26 | 65 | 145.45 | 47 | 30 | 22 | 128 | 86 | 315.75 | 75 | 45 | 75 | 130 | 48 | 1473.46 | 58 | 62 | 66 |

Table 15.6.3(a): Division Wise Performance of Grass Fodder Plantations for 2015 Creation 5th Year Monitoring By Monitoring (North) Division

| Division / Scheme | Grass Fodder | | Total Area(Ha) | 1 st Yr WPS | 3 rd Yr WPS | 5 th Yr WPS |
|-------------------|--------------|-----------|----------------|------------------------|------------------------|------------------------|
| | Area | WPS | | | | |
| Gorumara WL | 40 | 49 | 40 | 58 | 39 | 49 |
| Total | 40 | 49 | 40 | 58 | 39 | 49 |



Jica B1.2016 5th year. Raiganj, Range Balurghat, Beat Tapan, Location- Sri Rampur Bridge. 2.5x2.5, Strip Pltn. 10ha.



Jaldapara WL, Madarihut Range, North Khairbari Beat, NKB1, 27ha, 2016



Jica, Mouza- Chaknatna kalaberia, Range- Tehatta, Beat- Karimpur, 5 ha.



Jica, Range- Onda, Beat- Chingani, Location- Dhabani-50, 60 ha.





ADMINISTRATIVE &
ACADEMIC BLOCK

TRAINING & CAPACITY BUILDING

CHAPTER - 16

16.1 INTRODUCTION

Education and training systems throughout the world are a dynamic system. One should keep always himself/herself updated along with the tune of changing scenario of every sphere of life. Education and training are the key resources available to us to meet the challenges in every sphere of life in present as well of the future. This also applies to education and training in the forestry segment including conventional forestry, new techniques in forestry and wildlife. Forestry courses and the training environment have undergone significant changes since last decade. Training in the forestry sector, are viewed as specialised

qualifications and the direction in which foresters should be developed, in circumstances of forestry works. The Development Circle aims to contribute significantly to the development of human resources in the forestry sector with a visionary training curriculum within the area of forestry and wildlife.

16.2 OBJECTIVE

Training programmes for the various categories of Forest Staff for capacity building is organised by the Development Circle for better management of forests and wildlife Protected Areas. To face the unique problems in Forestry Sector and



to fight against the new challenges, training in the form of refreshers' course or short courses on soft skill development are formulated as per the calendar of works published by the Government of West Bengal. In accordance with these view numerous one day workshops were organised for front line field staffs to upgrade their soft skills on management to mitigate their day to day stress and managerial problems. The main aim is to rejuvenate forest staff for better management of forests, afforestation, soil conservation, wildlife management, control of man-animal conflict, social forestry, and protection of forests through Joint Forest Management (JFM) and application of modern technology in forestry.

16.3 TRAINING CENTRES

Presently there are three training centres functioning:

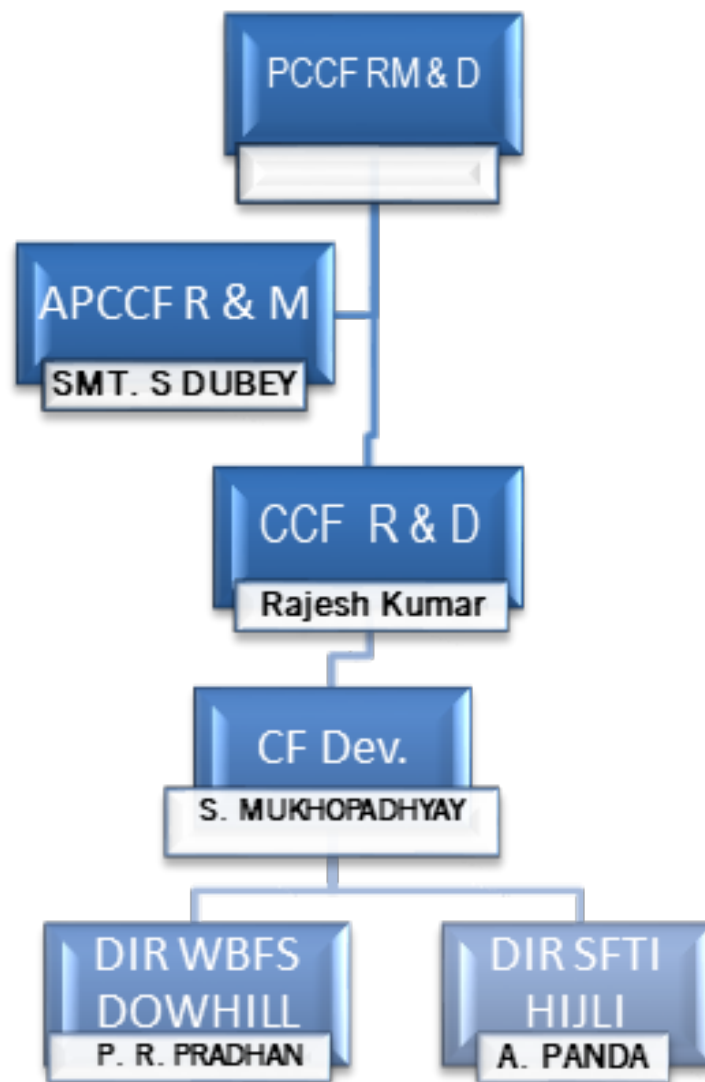
1. The West Bengal Forest School at Dow Hill, Kurseong (established in 1907) and the Forestry Training

Centre at Rajabhatkhawa (established in 1983). Dowhill have the capacity of 40 Nos of trainees and Rajabhatkhawa have 30 Nos of accommodation for trainees.

2. The State Forest Training Institute, at Hijli, Kharagpur), commissioned in 2016 and have a capacity of 120 trainees. To pertain training to the forester of this state this new campus has been constructed at Mouza-Paschim Pathri, JL-186 with an extent on forest land of 11.74 ha funded by Japan International Cooperation Agency (JICA).The new site is just beside the IIT, Kharagpur campus and adjacent to Hijli College. It was inaugurated by Mamata Banerjee, Honourable Chief Minister Government of West Bengal in February 2016.
3. Field accommodation for the use of trainees during their educational tours are located in different places. They are at Sukna, Bamanpokhri, Muhammad Bazar of Birbhum, Hijli (Kharagpur) and Bishnupur (Bankura).



16.4 ADMINISTRATIVE STRUCTURE OF DEVELOPMENT CIRCLE.



16.5 CONTACTS

| Sl. No. | Office | Phone | Extn. | Fax | e-mail | Address |
|---------|---|-------------|-------|-------------|------------------------------|--|
| 1 | Principal Chief Conservator of Forest, Research, Monitoring & Development | 03322250053 | 208 | 03322341856 | pccfres-wb@nic.in | Office of the Principal Chief Conservator of Forests, Research, Monitoring & Development, New CIT Building, 3 rd Floor, P-16 India Exchange Place Extn. Kolkata 700073 |
| 2 | Additional Principal Chief Conservator of Forest, Research, & Monitoring | 03322250053 | 209 | 03322341854 | apccfrm-wb@nic.in | Office of the Principal Chief Conservator of Forests, Research, Monitoring & Development, New CIT Building, 3 rd Floor, P-16 India Exchange Place Extn. Kolkata 700073 |
| 3 | Chief Conservator of Forest, Research, & Development | 03322250053 | 230 | 03322341856 | ccfres.fd-wb@gov.in | Office of the Principal Chief Conservator of Forests, Research, Monitoring & Development, New CIT Building, 3 rd Floor, P-16 India Exchange Place Extn. Kolkata 700073 |
| 4 | Conservator of Forest, Development | 03323353261 | 208 | 03323353261 | cfdc-wb@nic.in | Office of the Conservator of Forests Development Circle, LA-10A, Salt Lake City, Sector III, Aranya Bhavan, 2 nd Floor, Kolkata 7000106 |
| 5 | Director, State Forest Training Institute, HIJLI | 03222220077 | | 03222220077 | dirsfti.frd-wb@bangla.gov.in | Office of the Director, State Forest Training Institute, Hijli, P.O.-Hijli Co-operative, Kharagpur, 721306 Dist. Paschim Medinipur |
| 6 | Director, West Bengal Forest School, DOWHILL | 03542332198 | | 03542332198 | cfdir-wb@nic.in | Office of the Director, West Bengal Forest School, P.O.-Dowhill, Kurseong, Dist. Darjeeling, 734204 |

16.6 TRAININGS HELD DURING THE YEAR 2018 -19

| Sl. No. | Name of Training | Venue | Duration of Training | Date of Training | No. of Participants |
|---------|---|--|----------------------|--------------------------|---------------------|
| 1 | 60 th Batch Regular Training Course for Forest Guard | West Bengal Forest School Dowhill | 6 months | 04-06-2018 to 04-12-2018 | 35 nos. |
| 2 | 61 th Batch Regular Training Course for Forest Guard | State Forest Training Institute, Hijli | 6 months | 11-06-2018 to 19-12-2018 | 54 nos. |



| Sl. No. | Name of Training | Venue | Duration of Training | Date of Training | No. of Participants |
|---------|---|--|----------------------|--------------------------|---------------------|
| 3 | 62 th Batch Regular Training Course for Forest Guard | State Forest Training Institute, Hijli | 6 months | 23-07-2018 to 18-01-2019 | 61 nos. |
| 4 | 110 th Batch Regular Course of DR/Fr training | State Forest Training Institute, Hijli | 6 months | 01-02-2018 to 19-07-2018 | 31 nos. |
| 5 | 63 th Batch Regular Training Course for Forest Guard | West Bengal Forest School Dowhill | 6 months | 17-12-2018 to 21-06-19 | 27 nos. |
| 6 | 64 th Batch Regular Training Course for Forest Guard | State Forest Training Institute, Hijli | 6 months | 27-12-2018 to 24-06-2019 | 36 nos. |
| 7 | Capsule Course for Forest Guard | Rajabhatkhawa | 1 month | 04-09-2018 to 05-10-2018 | 28 nos. |

16.7 TRAININGS HELD DURING THE YEAR 2019-20

| Sl. No. | Name of Training | Venue | Duration of Training | Date of Training | No. of Participants |
|---------|---|--|----------------------|--------------------------|---------------------|
| 1 | 63 th Batch Regular Training Course for Forest Guard | West Bengal Forest School Dowhill | 6 months | 17-12-2018 to 21-06-2019 | 27 nos. |
| 2 | 64 th Batch Regular Training Course for Forest Guard | State Forest Training Institute, Hijli | 6 months | 27-12-2018 To 24-06-2019 | 36 nos. |
| 3 | 65 th Batch Regular Training Course for Forest Guard | West Bengal Forest School Dowhill | 6 months | 01-07-2019 to 07-01-2020 | 32 nos. |
| 4 | 66 th Batch Regular Training Course for Forest Guard | State Forest Training Institute, Hijli | 6 months | 01-07-2019 to 27-12-2019 | 30 nos. |
| 5 | 67 th Batch Regular Training Course for Forest Guard | State Forest Training Institute, Hijli | 6 months | 01-07-2019 to 27-12-2019 | 34 nos. |
| 6 | Special Training Course for Deputy Ranger/Forester | Rajabhatkhawa | 1 month | 22-07-2019 to 20-08-2019 | 06 nos. |

16.8 TRAININGS HELD DURING THE YEAR 2020-21

| Sl. No. | Name of Training | Venue | Duration of Training | Date of Training | No. of Participants |
|---------|------------------|-------|----------------------|------------------|---------------------|
| | NIL | — | — | — | — |



16.9 TRAINING CALENDAR OF 2018-19 UNDER DEVELOPMENT CIRCLE (SUBJECTED TO ALTERATION AS PER SITUATION, AS ON 31 -03-19)

| SL No | Activities | Venue/ Institute | April, 18 | May, 18 | June, 18 | July, 18 | Aug, 18 | Sept, 18 | Oct, 18 | Nov, 18 | Dec, 18 | Jan, 19 | Feb, 19 | Mar, 19 |
|-------|---|---------------------|-----------|---------|----------|----------|---------|----------|---------|---------|---------|---------|---------|---------|
| 1 | Regular Training(6 months) for Forest Guard 59 th batch | SFTI, Hijli | ● | ● | ● | ● | ● | ● | - | - | - | - | - | - |
| 2 | Regular Training(6 months) for Deputy Ranger/Forester 108 th batch | SFTI, Hijli | - | - | ● | ● | ● | ● | ● | ● | - | - | - | - |
| 3 | Regular Training(6 months) for Deputy Ranger/Forester 109 th batch | SFTI, Hijli | - | - | - | - | - | - | ● | ● | ● | ● | ● | ● |
| 4 | Regular Training(6 months) for Deputy Ranger/Forester 107 th batch | WBFS Dowhill | - | ● | ● | ● | ● | ● | ● | - | - | - | - | - |
| 5 | Special Refresher Course (1 month) for Forest Guard (Promoted). | Rajabhatkhawa | - | ● | - | - | - | - | - | - | - | - | - | - |
| 6 | Special Refresher Course (1 month) for Deputy Ranger/Forester (Promoted). | Rajabhatkhawa | - | - | - | ● | - | - | - | - | - | - | - | - |
| 7 | Special Refresher Course (1 month) for Forest Guard (Promoted). | Rajabhatkhawa | - | - | - | - | ● | - | - | - | - | - | - | - |
| 8 | Two days' workshop on Yoga and spiritualism for frontline staff (4 Nos) | WBFS Dowhill | - | - | - | - | - | - | - | - | - | - | - | - |
| 9 | Two days' workshop on Forest and Wildlife Laws for frontline staff (4 Nos) | WBFS Dowhill | - | - | - | - | - | - | - | ● | - | - | - | - |
| 10 | One week refresher course on Forest Protection for grass root level staff. | Rajabhatkhawa | - | - | - | - | - | - | - | - | - | ● | - | - |
| 11 | One week refresher course on Forest Protection for grass root level staff. | SFTI, Hijli | - | - | - | - | - | - | - | - | - | - | - | - |
| 12 | One week refresher course on Wildlife Management and Bird Watching for Frontline staff. | Rajabhatkhawa | - | - | - | - | - | - | - | - | - | - | - | - |
| 13 | One week Arms Training for frontline staff. (4 Nos) | Rajabhatkhawa | - | - | - | - | - | - | - | - | - | - | - | - |
| 14 | Three days' workshop on FRA for frontline staff and other Target Group | Sukna | - | - | - | - | - | - | - | - | - | - | ● | - |
| 15 | Three days' workshop on FRA for frontline staff and other Target Group | SFTI, Hijli | - | - | - | - | - | - | - | - | - | - | ● | - |



16.10 TRAINING CALENDAR OF 2019-20 UNDER DEVELOPMENT CIRCLE (SUBJECTED TO ALTERATION AS PER SITUATION, AS ON 31.03.20)

| SL No | Activities | Venue/ Institute | Apr,19 | May,19 | June,19 | July,19 | Aug,19 | Sept,19 | Oct,19 | Nov,19 | Dec,19 | Jan,20 | Feb,20 | Mar,20 |
|-------|--|---------------------|--------|--------|---------|---------|--------|---------|--------|--------|--------|--------|--------|--------|
| 1 | Regular Training(6 months) for Forest Guard 63 rd batch | WBFS Dowhill | ● | ● | ● | - | - | - | - | - | - | - | - | - |
| 2 | Regular Training(6 months) for Forest Guard 64 th batch | SFTI, Hijli | ● | ● | ● | - | - | - | - | - | - | - | - | - |
| 3 | Regular Training(6 months) for Forest Guard 65 th batch (on going) | WBFS Dowhill | - | - | - | ● | ● | ● | ● | ● | ● | - | - | - |
| 4 | Regular Training(6 months) for Forest Guard 66 th batch (on going) | SFTI, Hijli | - | - | - | ● | ● | ● | ● | ● | ● | - | - | - |
| 5 | Regular Training(6 months) for Forest Guard 67 th batch (on going) | SFTI, Hijli | - | - | - | ● | ● | ● | ● | ● | ● | - | - | - |
| 6 | Special Refresher Course (1 month) for Deputy Ranger/Forester. | Rajabhatkhawa | - | - | - | - | ● | - | - | - | - | - | - | - |
| 7 | 2 nos.Special Refresher Course (1 month) for Forest Guard. (2 nos and proposed) | Rajabhatkhawa | - | - | - | - | - | - | - | ● | - | - | ● | - |
| 8 | Regular Training(6 months) for Deputy Ranger /Forester 11 th batch (proposed) | WBFS Dowhill | - | - | - | - | - | - | - | - | - | ● | ● | ● |
| 9 | Regular Training(6 months) for Forest Guard 68 th batch (proposed) | SFTI, Hijli | - | - | - | - | - | - | - | - | - | ● | ● | ● |
| 10 | Regular Training(6 months) for Forest Guard 69 th batch (proposed) | SFTI, Hijli | - | - | - | - | - | - | - | - | - | ● | ● | ● |



16.11 TRAINING CALENDAR OF 2020-21 UNDER DEVELOPMENT CIRCLE (SUBJECTED TO ALTERATION AS PER SITUATION, AS ON 31.03.21)

[illegible]





17.1 INTRODUCTION

The four districts of North Bengal namely Darjeeling, Jalpaiguri, Alipurduar and Cooch Behar are drained by almost 20 rivers and other enumerable rivulets. The catchment area spreads over around 12,726 Km² of which only 3,068 Km² is under forest cover. These rivers flow through three geographical zones, namely the Hilly Region, the Piedmont Zone and the Active Plains. Except for river Tista, all the other main rivers originating from the hilly region have steep to very steep fall and consequent high power of erosivity.

The area being part of new fold mountain is geologically unstable. The annual rainfall in the region is one of the highest and varies from 3,500 mm to 5,000 mm annually. The geological instability, high rainfall and high intensity of rainfall, porous sandy loam soil and steep slopes associated with different anthropogenic activities, are factors that accelerate erosion and land degradation affecting the lives of people and property, both public and private almost every year. Soil and moisture conservation by regular treatment through different kind of intervention both structural and vegetative, therefore, is of utmost importance for restoration.

17.2 CREATION AND ORGANIZATION

The Soil Conservation (North) Circle, West Bengal was created vide Department of Forests, West Bengal Memo no. 5861/For-G/4E-14/91 dated the 15.11.91 with Headquarters

at Siliguri reorganizing the erstwhile Soil Conservation Circle, West Bengal, Calcutta to exclusively supervise the soil conservation work undertaken by the three soil conservation divisions of North Bengal. The Circle has two divisions under it, namely

1. Kurseong Soil Conservation Division with Darjeeling and Kurseong Sub Division:

- Headquarters: Kurseong
- Geographical Jurisdiction: Darjeeling & Kurseong Sub- Division, Darjeeling.
- Overlapping Forest Jurisdiction: Wildlife-I, Kurseong & Darjeeling Divisions.
- G.O. No. 707-For-dt 15.02.1965 & 3123-For/4E-74 dt. 23.05.66

2. Jalpaiguri Soil Conservation Division with District of Jalpaiguri and Cooch Behar:

- Headquarters: Jalpaiguri
- Geographical Jurisdiction: Distt: Jalpaiguri, Cooch Behar
- Overlapping Forest Jurisdiction: Northern Circle, Gorumara Wildlife Division, Jaldapara Wildlife Division, and Buxa Tiger Reserve
- G.O. No. 3002-FOR-15-43/79 dt. 29.06.1981

All the divisions manage soil and water conservation in the forest areas through afforestation, reforestation, and various slopes, slip and drainage line treatment works involving gabions, hand packed walls and bamboo palisades.



Table 17.1: The distribution of field staff in Soil Conservation [North] Circle across the North Bengal is given in Table as below

| Sl. No. | Division | Range with H.Q. | Beats (excluding Attached Posts) | Beat H.Q. |
|-----------|--------------------------|---|----------------------------------|---------------|
| A. | Kurseong S.C. Division | 1. Ramam Catchment Range (Rimbik) | Rimbik | Rimbik |
| | | 2. West Balason Catchment Range (Sukhiapokhari) | Sukhiapokhari Mirik Lodhama | Sukhiapokhari |
| | | 3. East Balason Catchment Range (Dilaram) | Dilaram Jorebunglow | Dilaram |
| | | 4. Upper Mahanadi Catchment Range (Goomti) | Mahanadi Deorali | Ghoomtee |
| | | 5. Lower Mahanadi Catchment Range (Sukna) | Sukna Bagdogra | Sukna |
| | | 6. Upper Teesta Catchment Range (Teesta) | Teesta | Teesta |
| B. | Jalpaiguri S.C. Division | 1. Diana Catchment Range (Gairkata) | Gairkata Sulkapara | Gairkata |
| | | 2. Lower Teesta Catchment Range (Malbazar) | Malbazar Nagrakata | Malbazar |
| | | 3. Torsa Catchment Range (Baradabri) | Baradabri Falakata | Baradabri |
| | | 4. Mahananda Catchment Range (Salugarah) | Salugarah Belacoba | Salugarah |
| | | 5. Rydak Catchment Range (Samuktala) | Alipurduar Kamakshyaguri | Shamuktala |
| | | 6. Mansai Catchment Range (Coochbehar) | Coochbehar Mathabhanga | Coochbehar |
| | | 7. Jalpaiguri S.C. Range (Jalpaiguri) | Mekhliganj | Jalpaiguri |

17.3 HISTORY, LOCATION & JURISDICTION OF CIRCLE

The Soil Conservation (North) Circle, West Bengal, is created vide Department of Forests, West Bengal Memo no 8561/ For – G/4E-14/91 dated the 15th. November 1991 with Head Qr. at Siliguri by carving out from the erstwhile Soil Conservation Circle, West Bengal,

Calcutta to exclusively supervise the soil conservation work undertaken by the underlying soil conservation divisions of North Bengal. The Divisions within the circle with their geographical jurisdiction, headquarters, strength of existence, overlapping jurisdiction over territorial forest area and detainment of executive staff with Headquarter are summarized as given in Table-A and Table-B below:

Table 17.2(a):

| Division | Geographical Jurisdiction | Overlapping Forest Jurisdiction | Headquarter | G.O. |
|---------------------------|-------------------------------------|---|-------------|--|
| Kurseong S.C. | Darjeeling & Kurseong Sub-Division, | Darjeeling Wildlife-I, Kurseong | Kurseong | 707-For-dt. 15.2.1965& 3123-For/ 4E –74 dt.23.5.66 |
| Soil Conservation (North) | Dist: Jalpaiguri, Cooch Behar | Northern Circle, Cooch Behar Division, Buxa Tiger Reserve | Jalpaiguri | 3002-For- 15-43 /79 dt.29.6.1981 |



17.4 ESTABLISHMENT

Table 17.2(b) i: Staff Position of Soil Conservation (N) Circle as On 31.03.2018

S = SANCTION

E = EXISTING

V = VACANCY

| Sl. No | Name of Post | Direction SC. Division | | | Kurseong SC. Division | | | Jalpaiguri SC. Division | | |
|--------|-------------------|------------------------|---|---|-----------------------|---|----|-------------------------|----|----|
| | | S | E | V | S | E | V | S | E | V |
| 1 | C.F. | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | D.F.O. | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| 3 | A.D.F.O. | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 |
| 4 | HEAD CLERK | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 |
| 5 | ACCOUNTANT | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 |
| 6 | U.D.C. | 3 | 2 | 1 | 2 | 1 | 1 | 3 | 1 | 2 |
| 7 | L.D.C. | 4 | 0 | 4 | 0 | 0 | 0 | 4 | 0 | 4 |
| 8 | P.A. | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | C.T. | 0 | 0 | 0 | 4 | 1 | 3 | 0 | 0 | 0 |
| 10 | DRAFTSMAN | 1 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 1 |
| 11 | F.R. | 1 | 0 | 1 | 7 | 6 | 1 | 7 | 1 | 6 |
| 12 | DR/FR. | 1 | 1 | 0 | 19 | 5 | 14 | 13 | 7 | 6 |
| 13 | HEAD FOREST GUARD | 0 | 0 | 0 | 2 | 1 | 1 | 3 | 0 | 3 |
| 14 | FOREST GUARD | 0 | 0 | 0 | 19 | 9 | 10 | 19 | 9 | 10 |
| 15 | DUFTRY | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | DAKWALLA | 1 | 1 | 0 | 3 | 2 | 1 | 2 | 1 | 1 |
| 17 | DRIVER | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 18 | OFFICE PEON | 1 | 1 | 0 | 1 | 0 | 1 | 2 | 1 | 1 |
| 19 | ORDERLY | 2 | 2 | 0 | 6 | 1 | 5 | 7 | 6 | 1 |
| 20 | MALI | 1 | 0 | 1 | 22 | 4 | 18 | 1 | 0 | 1 |
| 21 | DARWAN | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 1 |
| 22 | KARMABANDHU | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 1 |
| 23 | BANAMAZDUR | 0 | 0 | 0 | | | | | | |
| 24 | BANASRAMIK | 0 | 0 | 0 | | | | 18 | 18 | 0 |

Table 17.2(b) ii:

| Sl. No. | Name of Post | Direction SC. Division | | | Kurseong SC. Division | | | Jalpaiguri SC. Division | | |
|---------|------------------|------------------------|---|---|-----------------------|----|---|-------------------------|----|---|
| | | S | E | V | S | E | V | S | E | V |
| 1 | Aranya Saathi(C) | 0 | 1 | 0 | 0 | 4 | 0 | 0 | 1 | 0 |
| 2 | Aranya Saathi(D) | 0 | 1 | 0 | 0 | 32 | 0 | 0 | 15 | 0 |
| 3 | Bana Sahayak | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |



17.5 BRIEF DETAILS OF DEVELOPMENTAL ACTIVITIES (PHYSICAL AND FINANCIAL)

17.4.1 Creation of Plantation 2020-21

| Plantation Works Status for the year 2020-21 under Soil Conservation (North) Circle, W.B. | | | | | | | | |
|---|-------------------------------------|------------------------|----------------------|----------------------|---------------------------------------|------------------------|----------------------|----------------------|
| Head of Service | Kurseong Soil Conservation Division | | | | Jalpaiguri Soil Conservation Division | | | |
| | Phy. Target (in Ha.) | Fin. Target (in lakhs) | Achievement in (Ha.) | Fin. Achievement (₹) | Phy. Target (in Ha.) | Fin. Target (in lakhs) | Achievement in (Ha.) | Fin. Achievement (₹) |
| 4406-01-101-001-V-87 Regn. (Plant. Creation) | 15 | 632850 | 15 | 632850 | 100 | 7100700 | 63 | 4038691 |
| 23-4406-01-789-003-00-87 Reg. (Creation of DPN) | 7 | 27328 | 7 | 27328 | 10 | 39040 | 10 | 39040 |
| 23-4406-01-789-003-00-87 Reg. (Advance work of DPN) | 10 | 45300 | 10 | 45300 | 15 | 67950 | 15 | 67950 |

17.4.2 Plantation Maintenance 2020-21

| | | Kurseong S.C. | | | | Jalpaiguri S.C. | | | |
|---------------------------|---------------------|--------------------------|-------------|----------------------|------------------|--------------------------|-------------|----------------------|------------------|
| | | Physical Target (in Ha.) | Fin. Target | Achievement (in Ha.) | Fin. Achievement | Physical Target (in Ha.) | Fin. Target | Achievement (in Ha.) | Fin. Achievement |
| 4406-01-101-001-V-87 Regn | 1 st yr. | 15.5 | 300566 | 15.5 | 300566 | 70 | 899813 | 70 | 899813 |
| 4406-01-101-001-V-87 Regn | 2 nd yr. | 50 | 427693 | 50 | 427693 | 50 | 564628 | 50 | 564628 |
| 4406-01-101-001-V-87 Regn | 3 rd yr. | – | – | – | – | 50 | 252737 | 50 | 252737 |
| 4406-01-789-002-V-87 Regn | 4 th yr. | 15 | 15019 | 15 | 15019 | 95 | 95119 | 95 | 95119 |
| 4406-01-796-002-V-87 Regn | 5 th yr | 55 | 212960 | 55 | 212960 | 190.6 | 738003 | 190.6 | 738003 |

17.4.3 Estimates submission Details for 2020-21

| Division | Head of Service | Item of Work | Previous Allocation (₹ in lakh) | Revised Allocation (₹ in lakh) | Estimate Submitted (₹ in lakh) | Remarks |
|-----------------|--------------------------|-----------------------------|---------------------------------|--------------------------------|--------------------------------|--|
| Kurseong S.C. | 2406-01-070-004-Building | Repairing of Govt. Building | 15.50 | 3.10 | 1.60 | Submitted to CCF/Soil/WB vide this office letter No. 520(7)/B/PS-77 Dt. 16.09.2020 |
| Jalpaiguri S.C. | | | | | 1.50 | |



| Division | Head of Service | Item of Work | Previous Allocation (₹ in lakh) | Revised Allocation (₹ in lakh) | Estimate Submitted (₹ in lakh) | Remarks |
|-----------------|-------------------------|----------------------|---------------------------------|--------------------------------|--------------------------------|--|
| Kurseong S.C. | 2551-60-101-028-50 O.C. | Soil & Moisture Work | 35.00 | 30.00 | 14.97 | Submitted to CCF/Finance/WB vide this office letter No. 553(6)/B/PS-77, 555(7)/B/PS-77, 557(6)/B/PS-7, 559(6)/B/PS-77 Dt. 30.09.2020 |
| Jalpaiguri S.C. | | | | | 15.08 | |
| Kurseong S.C. | CAMPA | TLDP-III & IV | 130.83 | - | 130.83 | Submitted to PCCF/HoFF/WB vide PCCF/RMD/WB's letter No. 1230/PCCF-RMD/2P-3(S) Dt. 02.01.2020 |
| Kurseong S.C. | RKVY | RKVY | 155.00 | | 80.00 | Submitted to PCCF/HoFF/WB vide PCCF/RMD/WB's letter No. 05/PCCF-RMD/2P-38 Dt. 03.01.2020 |
| Jalpaiguri S.C. | | | | | 75.00 | |

17.4.4 Physical & Financial Target & Achievement Under State Plan(Annual Plan) During The Year 2020-21 At Kurseong Sc Division

| Sl. No. | Particulars of work | Target | | Achievement | |
|----------------------------|-----------------------------|------------|-------------|-------------|-------------|
| | | Physical | Financial | Physical | Financial |
| 4406-01-070-00-001-53-00-V | | | | | |
| 1. | Construction of Beat office | No2 (Part) | 11,54,200/- | No. 2(Part) | 11,54,200/- |

17.6 CENTRAL NURSERIES

| Division | Name of Nursery | Capacity (No. of seedlings) | Range |
|-----------------|-----------------|-----------------------------|--------------------------|
| Kurseong S.C. | Ghoomtee | 50,000 | Upper Mahanadi Catchment |
| | Mirik | 50,000 | West Balason Catchment |
| | Kalijhora | 50,000 | Upper Tista Catchment |
| | Dilaram | 50,000 | East Balason Catchment |
| Jalpaiguri S.C. | Sonarpur | 1,50,000 | Mansai Catchment |
| | Bodagunj | 2,00,000 | Mahanada Catchment |



Kalijhora Central Nursery



Dilaram Central Nursery



17.7 INTREGRATED WATERSHED MANAGEMENT PROGRAMME (IWMP)

17.7.1 Now as Pradhan Mantri Krishi Sichay Yojna (PMKSY)

The participatory watershed management for conserving rain water and other valuable natural resources is quite promising for potential use of these untapped & under tapped resources to bring about changes in agricultural production and to improve rural livelihood in the rain fed ecosystem. To bring all the watershed in to a single umbrella, the National Rain fed Area authority (NRAA) under the aegis of Planning Commission of India developed "Common Guidelines for Watershed Development Projects" in the year 2008 (which has been revised during 2011) and various schemes related to watersheds have been in operation at different points of time which have now been brought under the single umbrella of Integrated Watershed Management Programme (IWMP).

The West Bengal State Watershed Development Agency (WBSWDA), an independent agency constituted under the Society Registration Act, 1961 by the Department of Agriculture, Government of West Bengal, is engaged for implementation of the Integrated Watershed Management Programme (IWMP) sponsored by DoLR, MORD, GOI and Government of West Bengal in the State.

Main objective of watershed development programme:

- (i) Conservation, development and sustainable management of natural resources (arable & nonarable lands, water, animals, vegetation and social) including their use.

- (ii) Enhancement of agricultural productivity and production in a sustainable manner.
- (iii) Restoration of ecological balance in the degraded and fragile rainfed ecosystem.
- (iv) High water use efficiency.
- (v) Livestock, Pisciculture, other household production / development.
- (vi) Development / conversion of waste land.
- (vii) Reduction in regional disparity between irrigated and rain fed areas.
- (vii) Creation of sustained employment opportunities for the rural community including the landless.

Funding pattern under IWMP: The Department of Land Resources, MORD, GOI is the funding agency for implementation of IWMP in India and the funding patterns involves cost sharing between the Central and State Governments on a 90: 10 ratio.

Institutional set up under Watershed Development Projects:

The Agriculture Department has been identified as the nodal Department of the project, the various institution that are required to be in place for the IWMP are: State level- WBSWDA, District level- WCDC, Project level – PIA, Watershed level- WDT and Micro-watershed level- WC.

Detailed Project Report: RS-GIS, Kolkata, will help in preparation of DPRs of Micro-watersheds under the Soil Conservation (N) Circle. The process of DPR is going on.

Preparatory Phase: 6% of total Project cost was released for the implementation of Preparatory phase, of which is for Entry Point Activities, 1% is for preparation of DPR and 0.5% is for Administrative cost and 0.5% is for Institution & Capacity Building.

Table 17.7 (a) List of Watershed Projects

| Sl. No. | Name of District | Name of Project | Watershed Name | Total No. of Micro-Watersheds | Area to be treated (Ha.) | Total cost of the Project (in Crore) | Name of the PIA |
|---------|------------------|------------------|---------------------|-------------------------------|--------------------------|--------------------------------------|---------------------|
| 1 | Darjeeling | IWMP-5/2011-12 | Latpanchar | 4 | 4400 | 6.60 | D.F.O. KGN SC DIVN. |
| | | IWMP-6/2011-12 | Sittong Forest | 5 | 5000 | 7.50 | D.F.O. KGN SC DIVN. |
| | | IWMP-10/ 2014-15 | Ghoom Pahar | 4 | 4100 | 6.15 | D.F.O. KGN SC DIVN. |
| 2. | Cooch Behar | IWMP-5/2011-12 | Patlakhawa Putimari | 5 | 5000 | 6.00 | D.F.O. JPG SC DIVN. |



| Sl. No. | Name of District | Name of Project | Watershed Name | Total No. of Micro-Watersheds | Area to be treated (Ha.) | Total cost of the Project (in Crore) | Name of the PIA |
|---------|------------------|-----------------|----------------|-------------------------------|--------------------------|--------------------------------------|---------------------|
| 3. | Jalpaiguri | IWMP-3/2011-12 | Holong | 5 | 4400 | 5.28 | D.F.O. JPG SC DIVN. |
| | | IWMP-4/2011-12 | Gadadhar-II | 6 | 4500 | 5.40 | D.F.O. JPG SC DIVN. |
| | | IWMP-5/2011-12 | Chapramari | 4 | 4200 | 5.04 | D.F.O. JPG SC DIVN. |
| | | IWMP-6/2011-12 | Buri Basra | 5 | 4500 | 5.40 | D.F.O. JPG SC DIVN. |
| | | IWMP-7/2011-12 | Mantadari | 6 | 4400 | 5.28 | D.F.O. JPG SC DIVN. |
| | | IWMP-8/2011-12 | Moraghat | 5 | 4500 | 5.40 | D.F.O. JPG SC DIVN. |

Table 17.7 (b) The details of the project under this Division with SLUCI code is as follows:

| Sl. No. | Name of the Project | Name of the Microwatershed | SLUCI Code no. (major codes) |
|---------|----------------------|---|---|
| 1. | IWMP-10 (Ghoompahar) | i. Jore& Paschim Khola micro watershed ii. BhimKhola micro watershed iii. BalasonKhola micro watershed iv. RongbongKhola micro watershed | 2B1D7h2, 2B1D7h5 2B1D7g5, 2B1D7h7 2B1D7g42, 2B1D7g6 2B1D7f5, 2B1D7f6 and 2B1D7f7 |

Table 17.7 (c) Physical & Financial Target & Achievement Under Iwmp-10 During the Year 2020-21

| Particulars of work | Target | | Achievement | |
|-----------------------------|----------|-----------|-------------|-----------|
| | Physical | Financial | Physical | Financial |
| Catch Water Drain | 1195 rmt | 34,51,940 | 1195 rmt | 34,51,940 |
| Boulder Sausage Wall 600 m3 | 600 m3 | 17,41,865 | 600 m3 | 17,41,865 |
| Jhora Training Work | 500 m3 | 24,42,000 | 500 m3 | 24,42,000 |



*Boulder Sausage Wall (100 m3)
at Dhotriya Forest Village*



*Jhora Training Work (100 m3)
at Dhotriya Forest Village*



*Catch Water Drain (100 rmt)
at Dhotriya Forest Village*



*Catch Water Drain (50 rmt)
at Lepcha Jagat*



*Boulder Sausage Wall (100 m3)
at Lepcha Jagat*



17.8 RHODENDRON PLOT, RIMBICK UNDER KURSEONG SC DIVISION

A demonstration plot of indigenous species of Rhododendrons and Michelias was created in the year 2003-04 near Forest Rest House Complex at Rimbick. This was

created over a fenced area of 0.40 ha. for the study, culture, demonstration and research of the above species. There are presently 18 species of Rhododendron and 6 species of Michelia to serve as a germ plasm. The details of the species planted with botanical name are as follows:

Table 17.7(a)

| Block/ Sub-block | Species planted (Local Name) | Species planted (in nos.) | Botanical Name |
|------------------|-------------------------------------|---------------------------|---|
| 1 - A | Kurlingaychimal (Yellow Leaf) | 28 | <i>Rhododendron hodgsoni</i> HK,E. |
| B | Dudheychimal | 21 | <i>Rhododendron smithii</i> Nutt. |
| 2 - A | Chimal (Blue flowers) | 28 | <i>Rhododendron vacinoides</i> HK. |
| B | Chimal (Red flowers) | 21 | <i>Rhododendron cinnabarium</i> HK. HK. |
| 3 - A | LaliGurans (Yellow leaf) | 28 | <i>Rhododendron barbatum</i> |
| B | Red gurans (Setopatay) | 21 | <i>Rhododendron arboreum</i> Smith |
| 4 - A | Chimalturlungay (Red flower) | 28 | <i>Rhododendron falconeri</i> HK. |
| B | Chimalsanupatay (White flower) | 21 | <i>Rhododendron griffithianum</i> Watt. |
| 5 - A | LaliGurans (Chill Patay) | 28 | <i>Rhododendron edgeworthianum</i> |
| B | Goth lay Chimal (Colourful flower) | 21 | <i>Rhododendron campanulatum</i> , Don |
| 6 - A | Laharaychimal (Chillopatay) | 28 | <i>Rhododendron dalhousiae</i> , HK. |
| B | Bhalaysunpati (Red flower) | 21 | <i>Rhododendron lepidotum</i> , Wall |
| 7 - A | Bhalaysunpati (White flower) | 21 | <i>Rhododendron lindleyi</i> |
| B | Gothalaychimal (White flower) | 28 | <i>Rhododendron thomsonii</i> |
| 8 - A | Khyaunipatayguras (Red flower) | 21 | <i>Rhododendron wihgtii</i> |
| B | Khasrepatayguras (Blue flower) | 28 | <i>Rhododendron grandis</i> |
| 9 - A | Lahepachimal (Yellow flower) | 21 | <i>Rhododendron anthopogon</i> , Don. |
| B | Chillopatayguras (Light red flower) | 28 | <i>Rhododendron fulgens</i> |
| | Total numbers | 441 | <i>Rhododendron</i> |

Table 17.7(b)

| S.No. | Name of Species | No. |
|-------|-----------------|-----|
| 1 | Rani champ | 15 |
| 2 | Mithey champ | 12 |
| 3 | Titey champ | 05 |
| 4 | Ghogay champ | 10 |
| 5 | China champ | 05 |
| 6 | Phusray champ | 17 |
| | Total numbers: | 64 |



17.9 SEDIMENT MONITORING STATION AT MONGONG KHOLA UNDER KURSEONG SC DIVISION

A SMS at Mongong Khola has been established w.e.f. 2003 under RVP Scheme in cooperation with Govt. of India, Ministry of Agriculture and IGBP to monitor the Hydrological data of the sub-watershed TK3f, Area (in ha) -1866, Treatable area-900 ha. This is fully modern SMS with automatic to manual data recorders and is 1st of it's kind in India at present. This SMS will fulfill a long felt need of this region for being a reliable system of collection of various hydrological data needed for planning effective models of treatments in delineated watersheds of Darjeeling Hills.

The equipments of this SMS are highly modernized and supplied by the Indo-German Bilateral Project 'Watershed Management'. The equipment consist of three-tier system, manual, semi-automatic and digital. The equipments installed are as follows:

- a) Rainuage – Manual, semi-automatic and digital.
- b) Thermograph – Semi-automatic and digital.

- c) Relative Humidity – Semi-automatic and digital.
- d) Water level Recorder – Semi-automatic and digital.
- e) Wind Velocity – Digital.

The digital data from d) is recorded in a separate digital recorder and the digital data from a), b), c) and e) are recorded in one eight decimal digital data recorder. Thus there is a future provision for another four parameters like wind direction, atmospheric pressure, soil temperature, radiation etc. which can also be installed. These data are first recorded in the data recorder which is then transferred to memory module which are small boxes of sizes 15 cm x 10 cm x 0.25 cm and can be easily carried and then the data transferred to a central computer. The detail of computerized data of rainfall (mm), run off (mm) and sediment yield production Rate, ha.m/100 sq km. from SMS Lodhama Khola, Darjeeling are kept under Divisional Forest Officer, Kurseong Soil Conservation division and are sent every year to Govt. of India, Ministry of Agriculture for study and record.



Computerised Silt Monitoring Station at Mongong Khola



CIRCLE IN - CHARGE.

| Sl. No. | Name of Officer | From | To |
|---------|--------------------------|----------|-----------|
| 01 | Sri V.Rishi, I.F.S. | 30.04.92 | 01.02.93 |
| 02 | Sri.K.K.Singh, I.F.S. | 01.02.93 | 09.07.93 |
| 03 | Sri M.A.Sultan, I.F.S. | 09.07.93 | 17.12.93 |
| 04 | Sri K.K.Singh | 17.12.93 | 01.01.94 |
| 05 | Sri M.A.Sulta, I.F.S. | 10.01.94 | 21.12.94 |
| 06 | Sri K.K.Singh, I.F.S. | 21.12.94 | 02.01.95 |
| 07 | Sri M.A.Sultan, I.F.S. | 02.01.95 | 05.05.97 |
| 08 | Sri R.Sinha, I.F.S. | 05.05.97 | 02.06.97 |
| 09 | Sri M.A.Sultan, I.F.S. | 02.06.97 | 31.05.99 |
| 10 | Dr. S.Patel, I.F.S. | 30.05.99 | 05.04.00 |
| 11 | Sri M.N.Majhi, I.F.S. | 05.04.00 | 04.09.01 |
| 12 | Sri R.R.P.Singh, I.F.S. | 04.09.01 | 22.04.02 |
| 13 | Sri R.R.Pandey, I.F.S. | 22.04.02 | 23.05.03 |
| 14 | Dr. P.T.Bhutia, I.F.S. | 23.05.03 | 09.06.03 |
| 15 | Sri R.R.Pandey, I.F.S. | 09.06.03 | 18.02.05 |
| 16 | Sri J.T.Mathews, I.F.S. | 18.02.05 | 05.03.05 |
| 17 | Sri R.R.Pandey, I.F.S. | 05.03.05 | 02.06.08 |
| 18 | Sri M.R.Balooch, I.F.S. | 02.06.08 | 13.06.08 |
| 19 | Sri M.S.Murali, I.F.S. | 13.06.08 | 06.12.08 |
| 20 | Sri M.C.Biswas, I.F.S. | 06.12.08 | 28.01.09 |
| 21 | Sri M.S.Murali, I.F.S. | 28.01.09 | 12.05.09 |
| 22 | Dr. P.T.Bhutia, I.F.S. | 12.05.09 | 01.06.12 |
| 23 | Sri Rajesh Kumar I.F.S. | 01.06.12 | 05.06.12 |
| 24 | Sri M.C.Biswas, I.F.S. | 05.06.12 | 16.01.15 |
| 25. | Sri U. Ghosh, I.F.S. | 16.01.15 | 26.08.15 |
| 26. | Sri G.P. Chhetri, I.F.S. | 26.08.15 | 09.06.17 |
| 27. | Sri S.K. Mollay, I.F.S. | 09.06.17 | 26.02.21 |
| 28. | Sri N.T.Bhutia, IFS | 26.02.21 | Till date |







WEST BENGAL FOREST DEVELOPMENT CORPORATION LTD

CHAPTER - 18

18.1 OBJECTIVES

West Bengal Forest Development Corporation Limited (WBFDCCL) came into existence in 1974. The Corporation was constituted on 19th July, 1974 under the Companies Act, 1956.

Broad Objectives of the Corporation are as follow:

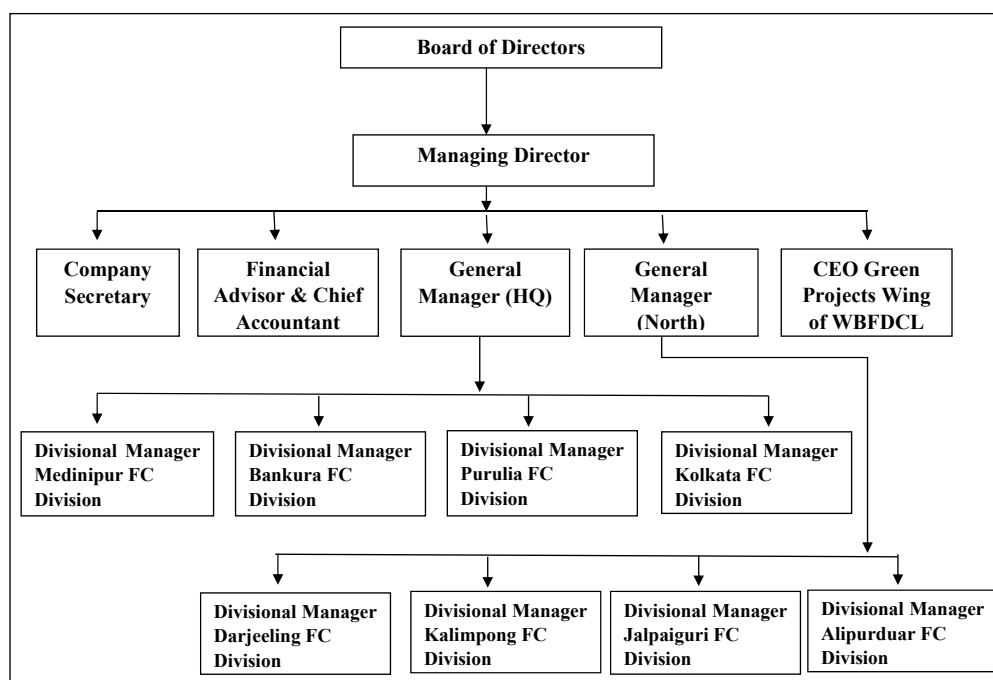
- To help conserve fragile ecosystem of the areas in Darjeeling Himalayas.
- To promote Joint Forest Management (JFM) with people's participation in South Bengal and North Bengal.

- To provide forest produce, such as timber, firewood, poles, small timber and other forest produces to the market.
- To develop awareness for conservation of nature through eco-tourism.
- To generate rural employment through forestry, eco-tourism and related activities.

18.2 ORGANIZATION STRUCTURE

The WBFDCCL is managed under the supervision and Control of the Board of Directors appointed by the Governor of West Bengal. A detail organization structure is given below:

Table 18.2: Organization Chart



18.3 BOARD OF DIRECTORS

During the Year 2020-21 the Board of Directors of WBFDC was as follows:-

1. Shri Udayan Guha, Chairman & Hon'ble MLA, West Bengal Legislative assembly upto 08-03-2021.
2. Shri Hridyesh Mohan, IAS, Additional Chief Secretary, Department of Forest, Govt. of West Bengal upto 12-02-2021)
3. Shri Vivek Kumar, IAS, Additional Chief Secretary, Department of Forest, Govt. of West Bengal (from 12-02-2021).
4. Shri Srikanata Mahata - Hon'ble MLA, West Bengal Legislative assembly upto 06-03-2021.
5. Smt. Mitali Roy - Hon'ble MLA, West Bengal Legislative assembly upto 05-03-2021
6. Shri Dulal Murmu - Hon'ble MLA, West Bengal Legislative assembly upto 06-03-2021
7. Shri Mohan Sharma- Mentor, Alipurduar Zila Parishad.
8. Smt. Maloti Baxla
9. Shri Ravi Kant Sinha, IFS, PCCF (HoFF).
10. Shri Subrat Mahapatra IFS, Deputy Director General of Forest (Central), Regional Office, M.O.EF& Climate Change, Bhubneswar.
11. Shri Tamal Krishna Saha, WBA&AS, Financial Advisor, Deptt. of Forests & Director, WBFDC Ltd upto 27-06-2020.
12. Shri Shankar Nath Sarkar, WBA&AS From 27-06-2020 to till date.
13. Shri Sandeep Sundriyal, IFS, Managing Director upto 12-02-2021
14. Sri T.V.N Rao, IFS Managing Director from 12-02-2021 to till date.

18.4 MAJOR ACTIVITIES

i) Harvesting & Sale of Timber in North Bengal: The North Bengal project was initiated as joint venture between WBFDC and Forest Directorate during 2003-04 for a period of 10 years. After the expiry of the said ten years the project was extended on year to year basis by the Department of Forest, the Govt. of West Bengal. The WBFDC arranges for harvesting of timber and firewood operation in North Bengal forests and its disposals through auctions and tenders and the revenue is deposited with the Forest Directorate after deducting the share of this Corporation towards

recovery of Administrative and Financial Charges and share of the Joint Forest Management Committees. WBFDC gets 17% of the net sale proceeds as the Recovery of Administration and Financial Charge. Alipurduar Forest Corporation Division, Siliguri Forest Corporation Division and Jalpaiguri Forest Corporation Divisions are working for this project.

ii) Harvesting & Sale of Timber in South Bengal:

At present WBFDC is undertaking harvesting and Marketing of Timber on behalf of the Forest Directorate. The revenue is deposited with the Forest Directorate after deducting the share of this Corporation towards recovery of Administrative and Financial Charges and the share of the JFMCs. West Bengal Forest Development Corporation Limited gets 20% of the net sale produce as the said Administrative and Financial Charges. The Medinipur Forest Corporation Division, Bankura Forest Corporation Division and Purulia Forest Corporation Division are working for harvesting of matured Sal crop & plantations in South West Bengal.

The sale value earned through e- auction amounting to ₹ 165,45,88,001/- as per Revised Budget (R.E) during 2020-21.

iii) Eco- tourism: WBFDC is maintaining Eco-Resorts at the different places of West Bengal. At present the Eco-Resorts at Barodabari, Bodaganj, Garchumuk, Garhpanchokot, Gorubathan, Kalimpong, Jhargram, Lava, Lepchajagat, Loleygaon, Mongpong, Mukutmonipur, Parens Mufti, Rashikbeel, Buxa — Jungle Lodge, Suntaleykhola are functioning. The online booking facility for the aforesaid Eco-resorts is also extended to tourists through the Epayment Gateway system of this Corporation. This Corporation is also undertaking the internet booking of the Ecoresorts owned by the different private parties in order to augment its income. The gross revenue earned from the Eco-resorts for the year 2020-21 stood at ₹ 3,07,04,702/- (as per R.E).

iv) Joinery & Carpentry Products: WBFDC runs four Joinery and Carpentry Units at Siliguri, Rajgang, Salt Lake and Durgapur. It also supplies its products to various prestigious organizations including Aliah University, Airport Authority of India, Agriculture Marketing deptt, Govt of West Bengal, Jt. Secy to the Govt of West Bengal, Raj Bhawan. DFO/Monitoring cell (s) Division, Chief Conservator of Forests, South East Circle, Lal Baba College at Howrah, Circuit House South 24 Parganas, Bengal Brick Field Owners Association and many such organizations/offices. Total revenue



from these units was ₹ 2, 20, 96,078/- for the year 2020-21 (R.E).

v) Saw Mills & sale of Sawn Timber: Wbfdcl runs 4 Saw mills at Siliguri (Govt Saw Mills), Salugara, Bhuttabari, and Madarihat, Sawn timber is sold to public through sale centres located at Siliguri, Raiganj, Salt Lake, Durgapur, Midnapur, Purulia, Darjeeling, Kalimpong, Kurseong and Bhuttabari.

vi) Honey Operation: Wbfdcl procures honey through the members of Joint Forest Management Committees (JFMCs) under Sunderbans Tiger Reserve & 24 Parganas (S) Division and sells after refinement under the brand name MOUBAN. The total revenue during 2020-21 was ₹ 89,29,450/- (R.E).

vii) Disposal of trees from Non Forest Land: West Bengal Forest Development Corporation Ltd. is also engaged in disposal of trees from other Govt. agencies like NHAI, PWD, Metro Railway etc.

viii) Greening of Waste Lands in South West Bengal: West Bengal Forest Development Corporation Ltd. (Wbfdcl) has initiated a programme for plantation of *Eucalyptus* clones on private waste lands in rural areas of Medinipur, Purulia and Bankura districts in South Bengal

with a view to improve socio economic condition of weaker section of the Society. This activity aims to help the poor land owners who are presently unable to get any benefit from their unused land and simultaneously improve the earnings of the Corporation. Entire investment for plantation and harvesting will be borne by the Corporation and the revenue of the produce or Crop will be shared by the Corporation and the Individual land owners in the ratio of 3:1. Area of 175.00 ha was planted during the year in the scheme.

ix) Darjeeling-Rangit Valley Ropeway: Ropeway at Darjeeling is operated in collaboration with a private partner viz, M/s. Conveyor & Ropeway Services Private Ltd. and continuing its public service as a source of pleasure & amusement.

The revenue earned during 2020-21 has been ₹ 39, 18,108/- (as per R.E).

E) Schedule of Meetings Held: During the FY 2020-21, 4 (Four) Board Meetings were duly held on 27.06.2020, 17-08-2020, 15-10-2020, 24-12-2020.

E) Financial results: The summary of working result of Wbfdcl for the financial year 2020-21 (Provisional) as compared to the earlier year is as follows.

PROVISIONAL PROFIT AND LOSS FOR THE YEAR ENDED 31ST MARCH, 2021

| REVENUE FROM OPERATION | Current Year 2020-21 | Previous Year 2019-20 |
|---|----------------------|-----------------------|
| | Amount(₹) | Amount(₹) |
| SALE OF GOODS | 6,73,26,018 | 1519,26,452 |
| OTHER OPERATING INCOME | 29,21,33,854 | 5073,77,474 |
| | 35,94,59,871 | 6593,03,926 |
| OTHER INCOME | 11,04,40,843 | 77,83,826 |
| TOTAL REVENUE | 46,99,00,714 | 6670,87,752 |
| TOTAL EXPENSES | 45,70,09,583 | 5592,81,963 |
| PROFIT BEFORE EXTRAORDINARY ITEMS AND TAX | 1,28,91,131 | 10,78,05,789 |
| EXTRAORDINARY ITEM | - | - |
| PROFIT BEFORE TAX | 1,28,91,131 | 1078,05,789 |

18.5 GREEN PROJECTS WING

1. Objective: The primary objective of the Green Projects wing, West Bengal Forest Development Corporation Ltd. was greening of lands and degraded land in the State of West Bengal along with allied forestry activities. Starting with the creation of plantations on lands

and supply of organic fertilizers to forest divisions, it gradually started diversifying into activities such as landscaping, creation of green shelter belts, timber harvesting, creation of theme parks, building nature interpretation centre and aesthetically appealing animal enclosures and roadside beautification. Green Projects wing has come a long way in the past times



establishing itself as a premier organization for taking up forestry and allied activities in the State of West Bengal.

2. Organization details: The following is the Organization details of Green Projects Wing, WBFDC Ltd:-

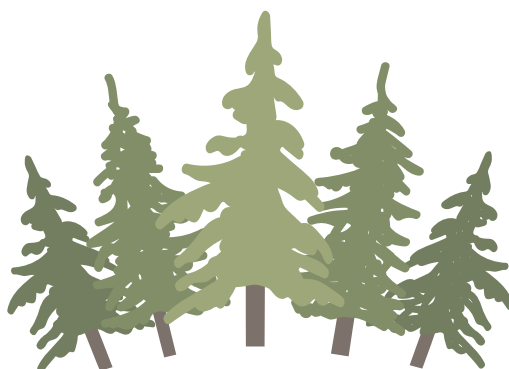
- Chief Executive Officer, Green Projects Wing, WBFDC Ltd
- **CF Parks & Gardens Wing & Ex- Officio General Manager, Green Projects Wing, WBFDC Ltd**
- Headquarter Manager & DDO, Green Projects Wing, WBFDC Ltd
- **Ex-officio Managers, Green Projects Wing, WBFDC Ltd**
- All Territorial Divisional Forest Officers / Deputy Field Directors of Directorate of Forest of Govt. of West Bengal.

3. Major Activities: The overall objective of Green Projects Wing, WBFDC Ltd is Landscaping and Beautification works along with Afforestation on receipt of fund from different Departments and Corporations of both Govt. of W.B. and Govt. of India as DEPOSIT FUND.

Projects on Landscaping and beautification works on the following sites that have been implemented during 2019-2020 and are being continued are as follows:

- i. Maintenance of Landscaping and beautification works at Vivekananda Yuba Bharati Krirangan at Salt Lake, Kolkata funded by Sports & YW Deptt.
- ii. Maintenance of Landscaping, beautification and plantation works at E.M Bye pass from Captain Bheri to Garia Dhalai Bridge funded by KMDA.
- iii. Maintenance of Landscaping and plantation activities on Vidyasagar Setu funded by Hooghly River Bridge Commissioners.

- iv. Creation and Maintenance of plantation in ECL collieries.
- v. Maintenance of IT parks at Krishnanagar, Siliguri and Malda of WBEIDCL (WEBEL).
- vi. Maintenance of Tall seedlings nursery at Rajarhat.
- vii. Creation and Maintenance of Landscaping and beautification works at Gazoledoba Eco Park and Bhamri Devi Temple under WBTDC.
- viii. Creation of Landscaping and beautification works in South Bengal and North Bengal of all Tourist lodges/Resorts under WBTDC.
- ix. Creation of Landscaping and beautification works at Green City Mission, Sahebbund.
- x. Maintenance of Plantation of National Highway Authority at PD Nadia-Murshidabad, Malda, Raigunj, 24 PGS (N) & Durgapur-Burdwan.
- xi. Creation of Avenue & Median Plantations along NH-31 & NH-31C from Dalkhola to Salsalabari upto Assam Border under Green Highway Projects of NHAI.
- xii. Maintenance of Plantation of West Bengal Highway Development Corporation Ltd at Howrah Division.
- xiii. Maintenance of Landscaping, beautification works of Damodar Valley Corporation Ltd at DSTPS & MTPS.
- xiv. Maintenance of Landscaping, beautification works at different sites of West Bengal Electronics Industry Development Corporation Ltd.
- xv. Maintenance of Plantation of East Kolkata Wetland under WB Pollution Control Board.
- xvi. Maintenance of Landscaping & Beautification Work from Charial Khal to Behala Police Station on D.H. Road & Soujanya State Guest House funded by PW Directorate.



WEST BENGAL PULPWOOD DEVELOPMENT CORPORATION LTD

CHAPTER - 19

The West Bengal Pulpwood Development Corporation Ltd., a Joint Sector Company was established as a Limited Company with share holding pattern of 50:50 partnership between Titagarh Paper Mills Ltd. in the year of 1982 with an authorised share capital as per Memorandum of Article of Association amounting to Rupees 3(Three) Crores.

Till date the paid-up Share Capital is ₹ 8200700 (Eighty Two Lakhs and Seven Hundred) Only.

19.1 DETAILS OF DIRECTORS/KEY MANAGERIAL PERSONNEL

The Company has five Directors:

1. Sri Hiten Barman, Chairman
2. Sri Debasish Goswami
3. Sri T.V.N. Rao, IFS. Managing Director
4. Sri Debal Ray, IFS
5. Sri Niraj Singhal, IFS

19.2 ACTIVITY OF THE COMPANY

To raise Pulpwood plantation in non-forest land for creation of resource for supply of pulpwood to Paper Industries.

19.3 FINANCIAL RESULT DURING 2020-21

| | |
|---|----------------|
| 1. By Sale Of Pulpwood Plantation over 39.91H | ₹ 40,01,900.00 |
| 2. Income from Bank Interest | ₹ 18,67,047.00 |

Expenditure

Maintenance cost of older plantation over 20H- ₹ 81,120.00

Account Details

| | |
|--------|---------------------------------|
| Credit | Opening Balance: ₹ 38,12,655.08 |
| | Earning: ₹ 58,75,137.00 |
| | Total: ₹ 96,87,792.08 |
| Debit | Expenditure: ₹ 33,69,744.41 |
| | Closing Balance: ₹ 63,18,047.67 |
| | Total: ₹ 96,87,792.08 |

19.4 STAFF STRENGTH: TOTAL PERMANENT STAFF AT PRESENT IS 2 NOS.

| | |
|----------------------|-----|
| 1. Ministerial Staff | NIL |
| 2. Peon | 1 |
| 3. Rakha | 1 |





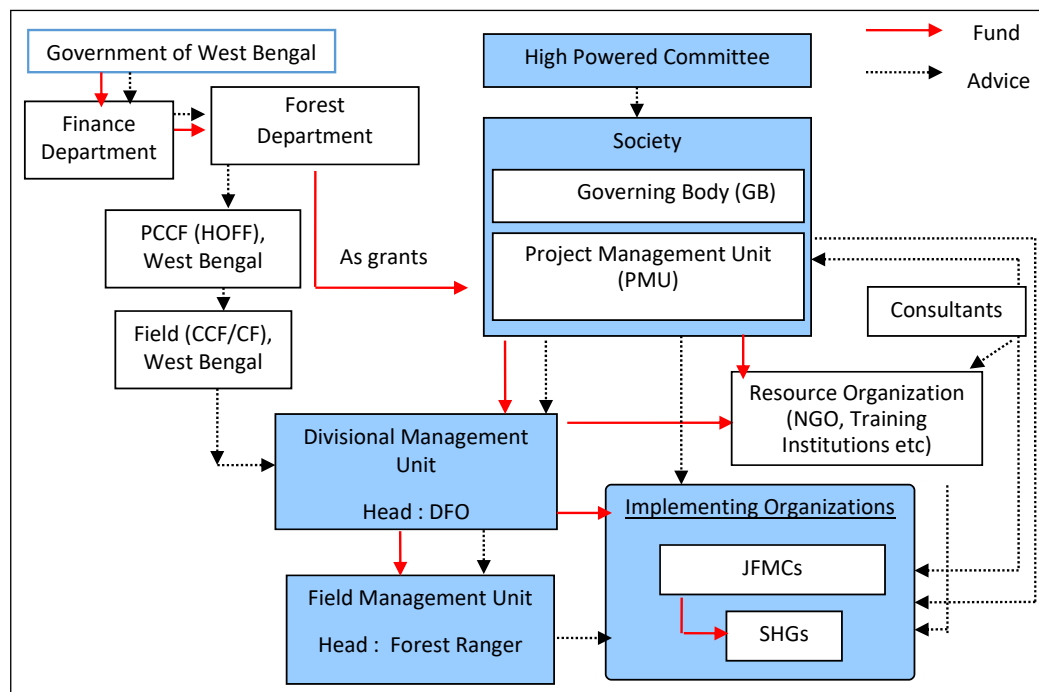
WEST BENGAL FOREST AND BIODIVERSITY CONSERVATION PROJECT

CHAPTER - 20

20.1 OBJECTIVES

- To improve forest ecosystem, conserve biodiversity and improve livelihood means by undertaking afforestation, regeneration, wildlife management and income generation activities through Joint Forest Management approach, including institutional capacity development, thereby contributing to environmental conservation and harmonized socio-economic development of West Bengal.
- To strengthen the Joint Forest Management, to arrest land degradation and also to enhance the capacity of local people for higher income generation and thereby improving the livelihood of Forest dwellers and other forest dependent communities.
- To adapt an integrated approach for forest and biodiversity conservation.
- To adapt an integrated approach to implement the objectives noted at a, b & c above.
- To highlight the necessity of the Institutional capacity development of the West Bengal Forest Development and of the Community Development Component in the Forest Sector of the State of West Bengal.

20.2 ORGANISATIONAL DETAILS



20.3 GOVERNING BODY

The members of the Governing Body of the Society and their designations are as follows:

| Sr. No. | Name | Designation |
|---------|---|------------------|
| (i) | Addl. Chief Secretary/Principal Secretary to the Govt. of West Bengal, Department of Forests | Chairperson |
| (ii) | Principal Chief Conservator of Forests, Head of Forest Force, West Bengal | Member |
| (iii) | Principal Chief Conservator of Forests, Wildlife and Chief Wildlife Warden, West Bengal | Member |
| (iv) | Principal Chief Conservator of Forests, General, West Bengal | Member |
| (v) | Principal Chief Conservator of Forests, Research, Monitoring and Development, West Bengal | Member |
| (vi) | Representative of Finance Department, Government of West Bengal, not below the rank of Joint Secretary, to be nominated by the Addl. Chief Secretary/Principal Secretary to the Govt. of West Bengal, Finance Department. | Member |
| (vii) | Representative of Finance Department, Government of West Bengal, not below the rank of Joint Secretary, to be nominated by the Addl. Chief Secretary/Principal Secretary to the Govt. of West Bengal, Department of Forests | Member |
| (viii) | Managing Director, West Bengal Forest Development Corporation | Member |
| (ix) | Managing Director, West Bengal Wasteland Development Corporation | Member |
| (x) | Addl. Principal Chief Conservator of Forests, Human Resource Development, West Bengal | Member |
| (xi) | Addl. Principal Chief Conservator of Forests, Finance, west Bengal | Member |
| (xii) | Addl. Principal Chief Conservator of Forests, North Bengal | Member |
| (xiii) | Chief Project Director, West Bengal Forest and Biodiversity Conservation Project | Member Secretary |

20.4 MAJOR ACTIVITIES

- Afforestation:** The project has achieved a target of afforestation over 21,881.93 ha against a target of 21,770 haat the end of 2020-21.
- Establishment of Nursery:** Against a target of establishing 35.50 units, a total of 40 units have been established by the end of 2020-21.
- QPM:** A total of 4,00,00,000 quality planting material has been produced till the end of 2020-21.
- Biodiversity Conservation:** Wildlife habitat management by raising fodder plantation over 335 ha has been taken up till this year against same target, 6 no. of protection Watch Towers have been constructed and 03 no of speed boats have been provided for Sundarban Tiger Reserve till the end of 2020-21.
- Man Animal Conflict management:** Energised power fence has been erected over 70 km and Nylon nets have been installed over a distance of 36 km and 01

vehicle with cage has been provided for transfer of stressed wild animals till the end of 2020-21.

- Community Development:** Micro-plans for 600 JFMCs have been prepared, Community development activities numbering 3610 in 593 JFMCs have been completed and 11620 Income Generation Activities in 560 JFMCs have been taken up till the end of 2020-21.
- Capacity Building:** 11,620 no. of JFMC members and frontline staff have trained against a target of 60,000 no., 31 officers had completed overseas training trips and 187 staff have been sent on exposure visit.
- Infrastructure Development:** Various offices under the Directorate of Forest at Siliguri operate from hired buildings and therefore, the Project has taken up an ambitious scheme of constructing a multi storied Administrative building at a cost of ₹ 6.00 crore. There has been revisions in the plan and as of day basic structure of G+5 stories is complete with an expenditure of ₹ 5.2659 crore. On the lower administrative level of



the forest directorate, 47 No. of Beat Offices have been constructed till the end of 2020-21.

9. Biodiversity Research: The following 06 no. of research activities, that had been commissioned by the WBFBCP have been completed and final reports for 5 out of 6 are expected shortly:

- Ecology of Elephants (*Elephas maximus*) in South West Bengal
- Ecology of Elephants (*Elephas maximus*) in North Bengal including population dynamics, migratory pattern, feeding habits and human – elephant conflicts
- Ecology of Gaur (*Bosgaurus*) in North Bengal including population dynamics, distribution, habitat use pattern, protected area wise carrying capacity estimation and human-gaur conflict
- Leopard (*Panthera pardus*) ecology in North Bengal including population dynamics, distribution, habitat use pattern and human-leopard conflict in North Bengal
- Impact of Habitat Management practices, especially canopy manipulation and Grassland restoration on the habitat use pattern of herbivores and herbivore carrying capacity in Jaldapara NP, Gorumara NP and Mahananda WLS

f. Distribution, population estimation and ecological reconnaissance of small mammals (Striped Hyena, Indian Wolf, Leopard Cat, Golden Jackal and Wild Boar) in South Bengal

It may be noted that the WBFBCP has funded and commissioned these research projects which are being conducted by various institutions and NGOs.

10. Projects at Research and Monitoring wing: Following 9 projects are ongoing:

- Mapping of Soil nutrition in North Bengal
- Study of *Acacia auriculiformis*
- Planting stock improvement on plus trees and evaluation of standing plus trees and candidate plus trees of target species.
- Evaluation of existing seed stand and seed production areas of the forest directorate, West Bengal
- Teak tree improvement.
- Validation / Standardisation of various parameters in the tall seedlings protocol.
- Inoculation of Agar Wood.
- Floristic and Avian Survey of Forest areas of South and North West Bengal to monitor the changes in the population.
- E-monitoring of forest plantations.

20.5 SCHEDULE OF MEETINGS HELD

Governing Body Meeting: 18th May, 2020

20.6 FINANCIAL RESULTS

| Component | Total Budget (₹ in Crore) | Utilization till 31.03.2020 (₹ in Crore) | Utilization during 2020-21 (₹ in Crore) | Utilization till 31.03.2021 (₹ in Crore) | Balance (₹ in Crore) |
|-----------------------|------------------------------|--|---|--|-------------------------|
| Afforestation | 181.33 | 157.38 | 15.24 | 172.62 | 8.71 |
| Biodiversity | 22.43 | 16.65 | 1.49 | 18.14 | 4.29 |
| Community Development | 60.36 | 37.82 | 15.26 | 53.08 | 7.28 |
| Capacity Building | 61.80 | 38.43 | 8.98 | 47.41 | 14.39 |
| Consultancy | 18.46 | 10.50 | 1.32 | 11.82 | 6.64 |
| Non Reimbursable | 61.62 | 36.05 | 8.65 | 44.70 | 16.92 |
| Total | 406 | 296.83 | 50.94 | 347.77 | 58.23 |





A5 Model, 25 ha, 2016 plantation, Wildlife III DMU, Madarihat FMU, South Khairbari Beat



A2 Model plantation, 5.00 ha, 2016 plantation, Rampur Mouza, Rupnarayan DMU, Amlagora FMU





A2 Model Eucalyptus plantation, 10 ha, 2013, at Kastogora Mouza, Amlagora FMU, Rupnarayan DMU



Beat Office building constructed under WBFBCP at Jaldapara HQ, Jaldapara East FMU, Wildlife III DMU



Central Nursery, Amlagora FMU, Rupnarayan DMU, capacity: 5.5 lakh





WEST BENGAL STATE FOREST DEVELOPMENT AGENCY

CHAPTER - 21

21.1 EXECUTIVE BODY

WBSFDA Executive Body Members are as follows:

1. The Principal Chief Conservator of Forests & HoFF
2. The Principal Chief Conservator of Forests, General
3. The Managing Director, West Bengal Forest Development Corporation Ltd
4. The Principal Chief Conservator of Forests, Wildlife
5. The Addl. Principal Chief Conservator of Forests, Finance
6. The Addl. Principal Chief Conservator of Forests, North Bengal
7. The Project Director, WBFBCP [JICA]
8. The Chairman, SPMU of JICA for Project on training
9. The Chief Conservator of Forests, SDP
 - Principal Chief Conservator of Forests & Head of Forest Force – **Chairman**
 - Chief Conservator of Forests, Special Development Project – **Member Secretary**
 - Upper Division Clerk
 - Chief Accounts Officer
8. The Chairman, SPMU of JICA for Project on training
9. The Chief Conservator of Forests, SDP
10. The Chief Conservator of Forests, Western circle
11. The Chief Conservator of Forests, Central circle
12. The Chief Conservator of Forests, South-East circle
13. The Chief Conservator of Forests, South-West circle
14. The Chief Conservator of Forests, Northern circle
15. The Chief Conservator of Forests, Hill circle
16. The Chief Conservator of Forests, Wildlife (N) circle
17. The Divisional Forest Officer, Jhargram Division & CEO, West Medinipur FDA
18. The Divisional Forest Officer, Gorumara WL Division & CEO, Wildlife-II FDA
19. The Principal Secretary, Panchayat & Rural Development Department, Govt. of West Bengal or his/her authorised representatives.
20. The Principal Secretary, Backward Classes & Welfare Department, Govt. of West Bengal or his/her authorised representatives.
21. Financial Advisor, Deptt. of Forests, Representative, Finance Deptt. WB

WBSFDA General Body Members are as follows:

1. The Principal Chief Conservator of Forests & HoFF
2. The Principal Chief Conservator of Forests, General
3. The Managing Director, West Bengal Forest Development Corporation Ltd
4. The Principal Chief Conservator of Forests, Wildlife
5. The Addl. Principal Chief Conservator of Forests, Finance
6. The Addl. Principal Chief Conservator of Forests, North Bengal
7. The Project Director, WBFBCP [JICA]

21.2 OBJECTIVE

National Afforestation and Eco – development Board [NAEB], Ministry of Environment, Forests and Climate Change, Government of India launched the National Afforestation Programme [NAP] to be implemented by Forest Development Agencies [FDA] of the states during 10th. Plan period. As per its guidelines, a State Level Co – ordination Committee was formed vide Notification No. 5890 – For dated 10.12.2007 and No. 3491 – For dated 18.08.2010. Subsequently, in compliance with guidelines of



the NAEB, "West Bengal State Forest Development Agency" [WBSFDA] was registered as Society in the year 2010.

In addition to the NAP programme, WBSFDA was made one of the signatories of the quadripartite agreement for implementation of the "Capacity Development for Forest Management & Training of Personnel" funded by JICA in 2010.

Regulations for WBSFDA were notified vide Notification No. 1130 – FRIIM – 19/ 2003 dated 10th June, 2014.

In order to enlarge the outlays, eliminate fragmentation of efforts, reduce inefficiencies and optimize the decision making processes as well as impacts to achieve the objectives of increasing forest cover, carbon sequestration / storage, hydrological services and biodiversity, etc., it has been decided, with the approval of Minister of Environment Forest and Climate Change, to merge National Afforestation Programme [NAP] under NAEB and Desertification Cell [DC] with National Mission for a Green India [GIM]

Some of the key schemes taken up by the WBSFDA and their performance in the year 2020-21 are given below:

21.3 MAJOR ACTIVITIES

21.3.1 Eco-Tourism

In March 2015, WBSFDA had started the Online Booking System for different eco-tourism centres in the State. The web site was www.wbsfda.gov.in. Recently WBSFDA has launched its new revamped website www.wbsfda.org for online booking of Eco-tourism Centres, Elephant Ride and Car Safari. The inventory of accommodation in the Eco-tourism Centres and receipts during 2020-21 is given below:

Statement of Eco-Tourism Activities (in ₹)

| Sl. No. | Division | Receipts from Eco-Tourism Activities |
|---------|---------------------|--------------------------------------|
| 1 | Purulia | 2,09,600.00 |
| 2 | Kangsabati (N) | 28,100.00 |
| 3 | Kangsabati (S) | 37,220.00 |
| 4 | Burdwan | 57,200.00 |
| 5 | Birbhum | 22,93,897.00 |
| 6 | Durgapur | 13,100.00 |
| 7 | Nadia - Murshidabad | 14,37,725.00 |
| 8 | Bankura (N) | 5,52,964.00 |
| 9 | Bankura (S) | 31,000.00 |

| Sl. No. | Division | Receipts from Eco-Tourism Activities |
|--------------|---------------------|--------------------------------------|
| 10 | Panchet | 29,800.00 |
| 11 | Rupnarayan | 20,200.00 |
| 12 | Kharagpur | 55,060.00 |
| 13 | Medinipur | 20,58,777.00 |
| 14 | Jhargram | 3,26,460.00 |
| 15 | Purba Medinipur | 27,900.00 |
| 16 | URF | 1,13,12,476.00 |
| 17 | Parks & Gardens (N) | 94,03,240.00 |
| 18 | Kurseong | 81,600.00 |
| 19 | Darjeeling | 40,900.00 |
| 20 | Darjeeling WL | 1,23,63,042.00 |
| 21 | Gorumara WL | 94,11,601.00 |
| 22 | Jaldapara WL | 1,21,87,641.00 |
| 23 | Baikunthapur | 40,100.00 |
| 24 | Jalpaiguri | 19,21,215.00 |
| 25 | Coochbehar | 3,41,250.00 |
| 26 | Silviculture (Hill) | 3,09,140.00 |
| 27 | Silviculture (N) | 21,000.00 |
| 28 | Silviculture (S) | 21,000.00 |
| 29 | Kurseong SC | 4,700.00 |
| 30 | Kalimpong | 74,672.00 |
| 31 | Malda | 3,600.00 |
| 32 | Raiganj | 10,55,000.00 |
| 33 | SFTI, Hijli | 1,200.00 |
| 34 | WBFS, Dowhill | 12,300.00 |
| 35 | DCF, Administration | 1,69,900.00 |
| Total | | 6,59,54,580.00 |

21.3.2 Wildlife Depredation Fund

Fund was allotted for compensating the beneficiaries against Death, Injury, Crop Damage and Livestock damage owing to wild animal attack under Wildlife Depredation Fund.

Status of fund for Wildlife Depredation (in ₹ Lakh)

| Sl No. | Divisions | Total Allotment | Release |
|--------|-------------|-----------------|---------|
| 1 | Rupnarayan | 60.00 | 60.00 |
| 2 | Kharagpur | 85.00 | 85.00 |
| 3 | Medinipur | 193.00 | 193.00 |
| 4 | Jhargram | 125.00 | 125.00 |
| 5 | Bankura (N) | 39.00 | 39.00 |



| Sl No. | Divisions | Total Allotment | Release |
|--------------|-----------------|-----------------|----------------|
| 6 | Bankura (S) | 4.00 | 4.00 |
| 7 | Panchet | 10.00 | 10.00 |
| 8 | Baikunthapur | 35.00 | 35.00 |
| 9 | Jalpaiguri | 50.00 | 50.00 |
| 10 | Coochbehar | 2.00 | 2.00 |
| 11 | Purulia | 40.00 | 40.00 |
| 12 | Darjeeling – WL | 13.00 | 13.00 |
| 13 | Gorumara – WL | 60.00 | 60.00 |
| 14 | Jaldapara – WL | 95.00 | 95.00 |
| 15 | Burdwan | 2.00 | 2.00 |
| 16 | BTR (E) | 34.70 | 34.70 |
| 17 | BTR (W) | 37.00 | 37.00 |
| 18 | 24-Pargans (S) | 8.00 | 8.00 |
| 19 | STR | 20.00 | 20.00 |
| 20 | Kurseong | 80.30 | 80.30 |
| 21 | Darjeeling | 4.00 | 4.00 |
| 22 | Kalimpong | 9.00 | 9.00 |
| Total | | 1006.00 | 1006.00 |

21.3.3 Green India Mission

WBSFDA is the implementing Agency of Green India Mission for the State.

Fund received from Gol = ₹ 1571.08 lacs

21.3.4 Fund Received for felling, logging in connection with land diversion

| Nature of Works | Fund Received | Fund Utilised |
|--|---------------|---------------|
| NHIDCL (Kalimpong) Fund received against tree felling under felling logging scheme. | 135.26 lacs | 72.96 lacs |

21.3.5 NMPB Scheme

Funds were received in different stages from Government of India, Department of Ayurveda, Yoga & Naturopathy, Unani, Siddha & Homeopathy (AYUSH) of the Ministry of Health & Family Welfare for emphasising the importance of medicinal plants, its cultivation, production and marketing

and strengthening the natural product based system for health and welfare.

| Project Name | Fund received | Allotment | Expenditure |
|--|---------------|---------------|---------------|
| For "Socio-Economic Upliftment of JFMC through Conservation of Medicinal Plants, Value Addition & Marketing of Medicinal plants" – to be implemented in 225 FPCs of 9 Divisions in the State of West Bengal. | ₹ 667.92 lacs | ₹ 645.69 lacs | ₹ 592.17 lacs |
| For Revisiting MPCAs in West Bengal. | ₹ 54.54 lacs | ₹ 41.14 lacs | ₹ 31.15 lacs |
| 7 new MPCAs | ₹ 57.34 lacs | ₹ 18.67 lacs | ₹ 14.33 lacs |

21.3.6 Parks & Gardens & Eco-tourism Activities

During the year 2020-21 WBSFDA have received funds from different divisions under Parks & Gardens & Eco-tourism Activities.

| Year | Fund Received | |
|---------|-----------------|------------------------|
| | Parks & Gardens | Eco-tourism Activities |
| 2020-21 | 225.57 lacs | 443.56 lacs |

21.3.7 Digha Shankarpur Dev. Fund (Purba – Medinipur)

The project viz. 'Beautification from Railway Station Ghat to Police Holiday Home Ghat along the beach road' was allotted to Purba Medinipur Division, for which funding was provided by Digha Shankarpur Development Authority (DSDA).

| Particulars | Amount (₹ In Lakhs) |
|---------------|---------------------|
| Fund Received | 260.16 lacs |
| Fund utilised | 257.74 lacs |

21.3.8 Tree felling

| Particulars | Amount (₹ In lacs) |
|---------------|--------------------|
| Fund Received | 71.93 lacs |
| Refund | 17.35 lacs |





22.1 INTRODUCTION

The West Bengal Zoo Authority was constituted as a registered society vide Gazette notification no. 382-For; Kolkata, **27th August, 2009** and notification no.10036-For/11M-27/2002, dt. 23.12.2009, as a government controlled registered society under the Department of Forests, Govt. of West Bengal. The Authority became functional during **2012-13** only. The West Bengal Zoo Authority is governed by a 14 member body headed by the Chief Secretary, Govt. of West Bengal as Chairman and Addl. Chief Secretary, Department of Forests, Govt. of West Bengal as the Vice-Chairman. The Member Secretary, West Bengal Zoo Authority is responsible for the management of the affairs of the Authority, subject to the overall direction, control and superintendent of the Governing Board. West Bengal Zoo Authority has its own Regulations and Memorandum of Association to run the activities of Society. West Bengal Zoo Authority has its Secretariat at Aranya Bhawan, Block – LA-10A, Sector – III, Salt Lake City, Kolkata 700 106, West Bengal.

22.2 VISION

Our vision is to become a leading organisation in the country in the field of ex-situ conservation ensuring the rich bio-diversity of the state by supporting in situ conservation with intensive Scientific Zoo Management & Research programme by trained staff and by developing zoos as centre of learning for people and making zoo self-sufficient to accomplish their objectives.

22.3 MISSION

Our mission is to provide exemplary care to the zoo's wildlife population in a planned manner to ensure eco-system based naturalistic animal enclosures which will help

in conservation breeding of rare and endangered species through best practices of zoo management, veterinary care and inspiring current and future generations to become active citizens in wildlife conservation through nature education and awareness programme.

22.4 OBJECTIVE

The Authority has been assigned to perform the following functions:

- a. To take over the management of the Govt. controlled Zoological Parks/Gardens, Deer Parks, Breeding Centres, Rescue Centres, Safari Parks and other similar establishments/Organisations in West Bengal as may be specifically ordered, from time to time, by the Govt. of WB.
- b. To co-ordinate with collection and exchange programme and to procure such animals as may be required for the enrichment of the Zoological Gardens/ Mini Zoo through exchange from other zoos in India or from abroad.
- c. To function as the apex technical advisory body for the Zoological Parks/Gardens, Deer Parks, Breeding Centres, Rescue Centres, Safari Parks and other similar establishments/ organisations in West Bengal.
- d. To promote scientific management of zoos. To undertake Ex-situ conservation of endangered species of animals in captivity.
- e. To undertake programmes for re-stocking and re-introduction of captive bred animals in the wild.
- f. To undertake research on habits and breeding of animals and birds in natural habitat as well as in captivity.
- g. To create awareness about the rich faunal diversity by organising programmes, exhibitions, seminars, etc. and publishing's journals, bulletins etc.
- h. To undertake dissemination of zoo education.



22.5 ORGANISATION DETAILS

The West Bengal Zoo Authority is governed by a 14 Member Body headed by the Chief Secretary, West Bengal as Chairman and Additional Chief Secretary /Principal Secretary, Department of Forests, Govt. of West Bengal as the Vice-Chairman. Member Secretary is the responsible for the management of the Zoo Authority. Detailed list of Governing Body of West Bengal Zoo Authority is appended below:

| | |
|---|---------------|
| 1. The Chief Secretary to the Govt. of West Bengal | Chairman |
| 2. Addl. Chief/Principal Secretary to the Govt. of West Bengal, Dept. of Forests | Vice-Chairman |
| 3. Addl. Chief Secretary to the Govt. of West Bengal, Dept of Finance | Member |
| 4. Principal Chief Conservator of Forests & HoFF, West Bengal | Member |
| 5. Principal Chief Conservator of Forests (Wildlife) and Chief Wildlife Warden, West Bengal | Member |
| 6. Member Secretary, Central Zoo Authority, New Delhi | Member |
| 7. Member Secretary, West Bengal Zoo Authority | Convenor |
| 8. Director, Animal Husbandry & Vet. Services, W.B | Member |
| 9. Director, Padmaja Naidu Himalayan Zoological Park, Darjeeling | Member |
| 10. Director, Zoological Garden, Alipore, Kolkata | Member |
| 11. A person from North Bengal to be nominated. | Member |
| 12. NGO from North Bengal to be nominated | Member |
| 13. NGO from South Bengal to be nominated. | Member |
| 14. A person from South Bengal to be nominated. | Member |

Technical Committee of West Bengal Zoo Authority is headed by Principal Chief Conservator of Forests, Wildlife

and Chief Wildlife Warden, as Chairman and other 4 members are:

- Director, Padmaja Naidu Himalayan Zoological Park, Darjeeling
- Director, Zoological Garden, Alipore, Kolkata
- Director, Animal Husbandry & Veterinary Services
- Member Secretary, West Bengal Zoo Authority is the Convenor of Technical Committee.

Technical Committee provide technical assistance to Zoos under West Bengal Zoo Authority for proper and scientific development/management.

West Bengal has 5 no. clearly identifiable eco-regions. The WBZA is in process of establishing at least one representative zoo in each eco-region of the State. State has an already established zoo at Darjeeling (Padmaja Naidu Himalayan Zoological Park) dealing with the Himalayan Fauna of Darjeeling hills. A new zoo has been set up at Siliguri (North Bengal Wild Animals Park, viz. Bengal Safari) mainly to deal with the Megafauna of North Bengal flood plains. A Mangrove Zoo (Sundarban Wild Animals Park) to focus on the Megafauna at Sundarban is being created at Jharkhali. It was proposed to develop the zoo at Jhargram mainly for focusing on the Megafauna of Paschimanchal/Junglemahal like Leopard, Hyena, Indian Wolf, Bengal Fox, Jackal, Porcupine, different Herbivores and Birds. The Zoological Garden, Alipore has already been recognized as a '**Large category zoo**' by the Central Zoo Authority vide letter no 19-45/92-CZA(328) (Vol-IX)(E), dtd. 0401.2021. The Junglemahal Zoological Park, Jhargram has already been recognized as a '**Medium category zoo**' by the Central Zoo Authority by order no. 18-1.2017-CZA (Vol.I)(AK)/2048/2-17, dtd. 21/11/2017.

West Bengal Zoo Authority is also in process of developing Bardhaman Zoological Park, Bardhaman to focus on the fauna of Gangetic Plains (Alluvial region).

Zoological Garden, Alipore is one of the oldest Zoos in the country dealing with major fauna of the country.

In addition to above representative zoos of respective eco region there are another 6 Zoos viz., (i) Rasikbeel Mini Zoo, (ii) Surulia Mini Zoo, (iii) Garchumuk Deer Park (iv) Adina Deer Park, & (v) South Khairbari Mini Zoo (vi) Harinalaya (Deer Park), New Town are managed by West Bengal Zoo Authority.



22.6 SCHEDULE OF MEETINGS HELD

During 2020-2021 the meetings of Governing Body and Technical Committee were held as follows:

22.6.1 Governing Board Meeting

19th Governing Body Meeting: On 08.12.2020

22.6.2 Technical Committee Meeting

19th Technical Committee Meeting: On 03.12.2020

22.7 FACILITIES HAVING WILD ANIMALS IN CAPTIVITY IN WEST BENGAL

(a) West Bengal Zoo Authority controlled recognised (by the Central Zoo Authority) Government zoos in West Bengal:

| Sl. No | Name of the Zoo | Location | Category of the Zoo | Recognition valid up to |
|--------|--|--------------------|---------------------|-------------------------|
| 1 | Zoological Garden, Alipore | Kolkata | Large | 19.08.2023 |
| 2 | Padmaja Naidu Himalayan Zoological Park | Darjeeling | Medium | 19.08.2022 |
| 3 | North Bengal Wild Animals Park (Bengal Safari) | Siliguri | Mini | 19.08.2021 |
| 4 | Sundarban Wild Animals Park | Jharkhali | Mini | 19.08.2021 |
| 5 | Junglemahal Zoological Park | Jhargram | Medium | 19.08.2022 |
| 6 | Bardhaman Zoological Park | Bardhaman | Small | 19.08.2021 |
| 7 | South Khairbari Mini Zoo | Alipurduar | Rescue Centre | 19.08.2021 |
| 8 | Rasikbeel Mini Zoo | Coochbehar | Mini | 19.08.2021 |
| 9 | Adina Deer Park | Malda | Mini | 19.08.2021 |
| 10 | Garhchumuk Deer Park | Howrah | Mini | 19.08.2021 |
| 11 | Surulia Mini Zoo | Purulia | Mini | 19.08.2021 |
| 12 | Harinalaya (Deer Park) | New Town, Rajarhat | Mini | 19.08.2021 |

(b) Facilities having wild animals in captivity and functioning as Conservation Breeding Centres in West Bengal are working successfully.

1. Birchhill Conservation Breeding Center (Snow Leopard & Red Panda), Darjeeling
2. Topkedara Conservation Breeding Center (Snow Leopard & Red Panda), 3rd mile.
3. Dowhill Conservation Breeding Center (high altitude herbivores & Pheasants), Kurseong.
4. Vultures Conservation Breeding Centre, Rajabhatkhawa (Buxa Tiger Reserve).
5. Sundarban Crocodilian Species Conservation Breeding Centre, Bhagabtpur (Sundarban Biosphere Reserve).

6. Batagur Baska in Sajnekhali & other islands of Sundarban Tiger Reserve.
7. Pheasants at Padmaja Naidu Himalayan Zoological Park, Darjeeling & Topkedara
8. Himalayan Goral at Dowhill in Kurseong.
9. Himalayan Newt at Padmaja Naidu Himalayan Zoological Park, Darjeeling
10. Fishing Cat in Zoological Garden, Alipore, Kolkata
11. Thamin at Zoological Garden, Alipore, Kolkata
12. The Conservation Breeding Programme of pheasants, Red Panda and Snow Leopard is quite successful and birth of 5 Red Panda and 2 Snow Leopard has been recorded during 2018-2019



22.8 MAJOR ACHIEVEMENTS DURING 2020-2021

1. Construction of Aviary (1 No.) at Bengal Safari, Siliguri on April 2020
2. Purchase of Veterinary Equipments at Padmaja Naidu Himalayan Zoological Park, Darjeeling on May 2020
3. Development of Visitors Pathway and Internal Road at Garchumuk Deer Park, Howrah on June 2020
4. Development of Crocodile Pond at Bardhaman Zoological Park, Bardhaman on July 2020
5. Construction of Treatment Room for Animals at Rasikbeel Mini Zoo, Coochbehar on August 2020
6. Quarantine Enclosure for Deer at Adina Deer Park, Malda September 2020
7. Construction of Enclosure for Hyena at Surulia Mini Zoo, Purulia October 2020
8. Translocation of surplus Chital Deer from Zoos to Forest area and other Zoos on December 2020

22.9 BUDGET 2020-21

22.9.1 Non-Plan

| Name of the Department provided Fund | Head of Service | Name of Zoos | Amount (₹) |
|---|--|--|----------------|
| Department of Forests, Govt. of West Bengal | Non Plan of 2020-21 "2406-02-111-NP-002-31" | For maintenance of all Zoos under WBZA | ₹ 33,01,98,000 |
| West Bengal Zoo Authority Fund | Non Plan | - do - | |

22.9.1 State Plan

| Name of the Department provided Fund | Head of Service | Name of Zoos | Amount (₹) |
|---|--|--|---------------|
| Department of Forests, Govt. of West Bengal | State Plan(Annual Plan) 2020-21 "2406-02-111-SP-002-31" | For improvement and development of all Zoos under WBZA | ₹ 1,55,40,152 |

22.10 PERFORMANCE 2020-21

A. Statement of Non-plan Fund allocated during the year 20-21

| Sl.No. | Name of Zoo | Amount Spent (₹) |
|--------|--|---------------------|
| 1 | Head Office WBZA | 46,00,000 |
| 2 | Zoological Garden | 16,26,00,000 |
| 3 | Padmaja Naidu Himalayan Zoological Park | 6,00,00,000 |
| 4 | North Bengal Wild Animal Park (Bengal Safari | 4,75,00,000 |
| 5 | Janglamahal Zoological Park | 1,11,52,324 |
| 6 | Sundarban Wild Animal Park | 78,00,000 |
| 7 | Bardhaman Zoological Park | 1,50,40,125 |
| 8 | Rasikbeel Mini Zoo | 70,00,000 |
| 9 | Surulia Mini Zoo | 70,38,166 |
| 10 | Garchumuk Deer Park | 88,00,000 |
| 11 | Adina Deer Park | 27,23,131 |
| 12 | South Khairbari Mini Zoo | 82,95,000 |
| 13 | Harinalaya Deer Park | 61,18,835 |
| | Total | 34,86,67,580 |



B. Details of Plan Fund utilised by different Zoos/Parks for the year 2020-21

| S L No. | Name of Zoo | Departments | Expenditure |
|---------|---|--------------------------------|---------------------|
| 1 | Zoological Garden, Alipore, Kolkata | West Bengal Forest Deptt. | 88,56,046 |
| | | West Bengal Zoo Authority Fund | 9,35,000 |
| 2 | Padmaja Naidu Himalayan Zoological Park, Darjeeling | West Bengal Forest Deptt. | 1,20,32,825 |
| | | West Bengal Corpus Plan | 1,51,19,595 |
| | | West Bengal Corpus Non Plan | 30,00,000 |
| 3 | North Bengal Wild Animal Park (Bengal Safari), Siliguri | West Bengal Forest Deptt. | 33,84,730 |
| | | North Bengal Dev. Deptt. | 1,25,50,818 |
| | | West Bengal Tourism Dept. | 1,10,70,757 |
| | | West Bengal WBZA Fund | 70,62,000 |
| 4 | Janglemahal Zoological Park, Jhargram | West Bengal Forest Deptt. | 26,86,894 |
| | | WBZA Fund | 14,00,000 |
| 5 | Sundarban Wild Animal Park, Jharkhali | West Bengal Forest Deptt. | – |
| | | WBZA Fund | 50,85,000 |
| 6 | Bardhaman Zoological Park, Bardhaman | West Bengal Forest Deptt. | 44,99,695 |
| | | WBZA Fund | 10,45,000 |
| | | West Bengal Zoo Authority Fund | – |
| 7 | Surulia Mini Zoo, Purulia | West Bengal Forest Deptt. | 2,08,218 |
| | | WBZA Plan | 20,50,000 |
| | | Paschimanchal Unnyan Parishad | 17,03,066 |
| | | WBZA Fund | 15,66,885 |
| 8 | Adina Deer Park, Malda | West Bengal Forest Deptt. | 14,88,964 |
| 9 | Rasikbeel Mini Zoo, Coochbehar | West Bengal Forest Deptt. | – |
| 10. | Garchumuk Deer Park, Howrah | West Bengal Forest Deptt. | 39,10,982 |
| | | WBZA Fund | 24,78,592 |
| 11. | Harinalaya Deer Park, New Town | West Bengal Forest Deptt. | 2,90,796 |
| | | WBZA Fund | 15,71,222 |
| 12. | South Khairbari Rescue Centre | WBZA Fund | 1,67,292 |
| | | West Bengal Forest Deptt. | 25,48,425 |
| | Total | | 10,67,12,802 |

22.11 REVENUE COLLECTION FOR THE YEAR 2020-21

| Month | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 |
|-------|-----------|----------------|--------------|----------------|-------------|
| April | 60,96,037 | 81,11,006.00 | 0.00 | 95,32,240.96 | 37,600 |
| May | 48,22,063 | 1,03,71,521.00 | 29,29,770.23 | 1,10,64,761.30 | 425,00 |
| June | 57,82,116 | 1,41,81,823.00 | 84,04,936.94 | 1,62,99,363.60 | 3,81,910.43 |



| Month | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 |
|-----------|---------------------|------------------------|------------------------|------------------------|-----------------------|
| July | 71,79,117 | 67,72,892.00 | 1,96,74,689.50 | 95,07,294.76 | 96,07,544.50 |
| August | 68,80,325 | 93,72,505.00 | 5,51,964.00 | 96,94,228.50 | 75,133.48 |
| September | 54,34,876 | 48,62,497.00 | 23,96,055.00 | 68,92,262.44 | 3,08,045.20 |
| October | 65,15,270 | 95,22,442.00 | 1,34,76,188.00 | 1,65,44,027.50 | 24,79,424.60 |
| November | 1,09,80,744 | 90,51,539.00 | 42,43,329.00 | 1,07,56,783.50 | 52,36,827.10 |
| December | 1,07,62,209 | 1,07,10,375.00 | 3,03,03,900.00 | 2,83,27,340.50 | 1,44,76,950.80 |
| January | 2,56,19,172 | 1,07,85,437.00 | 1,40,19,165.00 | 3,29,72,636.80 | 2,63,44,116.40 |
| February | 2,69,50,587 | 3,22,23,134.00 | 5,94,86,200.00 | 1,58,06,684.50 | 1,15,06,044.50 |
| March | 1,00,07,353 | 66,33,924.00 | 1,54,52,783.00 | 91,97,583.75 | 6,75,6650.80 |
| Total | 12,70,29,869 | 13,25,99,095.00 | 17,09,38,980.67 | 17,65,95,208.11 | 7,72,52,748.10 |

22.12 VISITORS OF ZOOS FOR THE YEAR 2020-21

| Sl.no. | Name of the Zoo | 2016-2017 | 2017-2018 | 2018-2019 | 2019-2020 | 2020-2021 |
|--------|---|------------------|------------------|------------------|------------------|------------------|
| 1 | Zoological Garden, Alipore, Kolkata | 34,12,446 | 35,41,978 | 32,97,579 | 29,32,910 | 14,15,705 |
| 2 | Padmaja Naidu Himalayan Zoological Park, Darjeeling | 4,98,789 | 3,76,397 | 7,94,892 | 7,30,950 | 1,89,573 |
| 3 | Junglemahal Zoological Park, Jhargram | 1,29,406 | 1,61,478 | 1,58,235 | 1,11,535 | 80,646 |
| 4 | Bardhaman Zoological Park, Bardhaman | 1,02,798 | 1,00,199 | 1,24,953 | 1,60,468 | 85,879 |
| 5 | Rasikbeel Mini Zoo, Cooch Behar | 1,05,152 | 1,22,990 | 1,22,404 | 1,05,766 | 59,488 |
| 6 | Surulia Mini Zoo, Purulia | 30,635 | 39,737 | 44,129 | 40,171 | 24,992 |
| 7 | Garchumuk Deer Park, Howrah | 1,70,304 | 1,45,315 | 1,90,875 | 1,65,030 | 82,085 |
| 8 | Adina Deer Park, Maldah | 75,120 | 90,808 | 97,708 | 82,855 | 67,660 |
| 9 | North Bengal Wild Animals Park, Siliguri | 1,42,259 | 2,72,250 | 2,91,999 | 2,54,958 | 1,15,954 |
| 10 | Sundarban Wild Animals Park, Sundarban | 1,29,200 | 1,40,700 | 1,44,595 | 1,42,234 | 1,31,730 |
| 11 | Harinalaya Deer Park, New Town | | 8,597 | 7,561 | 7,016 | 7,735 |
| | Total No. | 47,96,109 | 50,00,449 | 52,74,930 | 47,33,893 | 22,61,447 |

22.13.1 Statement of Adoption of Animals of Zoological Garden, Alipore during 2020-2021

| Sl. No. | Name of the animal adopted | Name of the Adopter | Name of the animal adopted | Address | Period | YEAR |
|---------|----------------------------|---------------------|----------------------------|--|--------------------------|-----------|
| 1 | Chimpanzee | Anshul Jain | Chimpanzee | 182, A J C Bose Road, Kol-14 | 09.10.2020 to 08.10.2021 | 2020-2021 |
| 2 | Chimpanzee (Babu) | Saptarshi Maulik | Chimpanzee (Babu) | HB 244, Sector III, Salt Lake, Kolkata 700 106 | 02.01.2021 to 01.01.2022 | 2020-2021 |



| Sl. No. | Name of the animal adopted | Name of the Adopter | Name of the animal adopted | Address | Period | YEAR |
|---------|----------------------------|--|----------------------------|-------------------------------------|--------------------------|-----------|
| 3 | Giraffe (male) | Devhuti Mody | Giraffe(male) | 14B,Judges Court Rd,Kol-700027 | 06.02.2021 to 05.02.2022 | 2020-2021 |
| 4 | Fishing cat | Rotary Club of Zone -8,RID-3291,R.C.DUMDUM,R.C. CALCUTTA,R.C. GANGE HERITAGE,R.C KOSSIPORE | Fishing cat | not to be mentioned in Receipt Book | 17.03.21 to 16.03.22 | 2020-2021 |

22.13.2 Statement of Adoption of Animals of Padmaja Naidu Himalayan Zoological Park, Darjeeling during the year 2020-2021

| Sl No | Name of the animal adopted | Name of the adopter | Duration of the adoption | Rate of adoption |
|-------|--|--|---|------------------|
| 1 | Snow Leopard (<i>Uncia uncia</i>) | Pallishree Limited, Kolkata | 1 st August, 2019 to 31 st July, 2020 | ₹ 1,00,000 |
| 2 | Red panda (<i>Ailurus fulgens fulgens</i>) | Pallishree Limited, Kolkata | 1 st August, 2019 to 31 st July, 2020 | ₹ 60,000 |
| 3 | Markhor | Vanachar Welfare Flora and Fauna Foundation, Gurgaon Haryana | 16 th January, 2020 to 15 th January, 2021. | ₹ 10,000 |

1. Birth of three male Bengal Tiger Cubs by Sheela at North Bengal Wild Animals Park (Bengal Safari), Siliguri



2. Treatment of pyometra in Kajol, the Common Leopard at North Bengal Wild Animals Park (Bengal Safari), Siliguri



3. Construction of Visitor's Pathway at Garhchumuk Deer Park, Howrah



4. Construction of Bird Aviary at North Bengal Wild Animals Park (Bengal Safari), Siliguri



5. Lady Ehmrest Peashant at Padmaja Naidu Himalayan Zoological Park, Darjeeling



“

“A nation that destroys its soils destroys itself. Forests are the lungs of our land, purifying the air and giving fresh strength to our people.”

— Franklin D. Roosevelt





SECTION - B





1.1 CENSUS OF INDIA 2011

Table 1.1 Provisional Population Totals for West Bengal

Area, Population, Decennial Growth Rate and Density for 2001 and 2011 at a glance for West Bengal and the Districts

| Sl. No | District | Area Sq. Km | Population 2001 | | | Population 2011 | | | Decennial Growth Rate (%) | | Population Density Per Sq.Km. | |
|--------|----------------------------|-------------|-----------------|----------|----------|-----------------|----------|----------|---------------------------|-----------|-------------------------------|-------|
| | | | P | M | F | P | M | F | 1991-2001 | 2001-2011 | 2001 | 2011 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| | West Bengal | 88,752 | 80176197 | 41465995 | 38710212 | 91276115 | 46809027 | 44467088 | 17.77 | 13.84 | 903 | 1028 |
| 1 | Darjeeling# | 3,149 | 1609172 | 830644 | 778528 | 1846823 | 937259 | 909564 | 23.79 | 14.77 | 511 | 586 |
| 2 | Jalpaiguri# | 6,227 | 3401173 | 1751145 | 1650028 | 3872846 | 1983064 | 1889782 | 21.45 | 13.87 | 546 | 622 |
| 3 | Koch Bihar | 3,387 | 2479155 | 1272094 | 1207061 | 2819086 | 1451542 | 1367544 | 14.19 | 13.71 | 732 | 832 |
| 4 | Uttar Dinajpur | 3,140 | 2441794 | 1259737 | 1182057 | 3007134 | 1551066 | 1456068 | 28.72 | 23.15 | 778 | 958 |
| 5 | Dakshin Dinajpur | 2,219 | 1503178 | 770335 | 732843 | 1676276 | 857199 | 819077 | 22.15 | 11.52 | 677 | 755 |
| 6 | Malda | 3,733 | 3290468 | 1689406 | 1601062 | 3988845 | 2051541 | 1937304 | 24.78 | 21.22 | 881 | 1069 |
| 7 | Murshidabad | 5,324 | 5866569 | 3005000 | 2861569 | 7103807 | 3627564 | 3476243 | 23.76 | 21.09 | 1102 | 1334 |
| 8 | Birbhum | 4,545 | 3015422 | 1546633 | 1468789 | 3502404 | 1790920 | 1711484 | 17.99 | 16.15 | 663 | 771 |
| 9 | Bardhaman# | 7,024 | 6895514 | 3588376 | 3307138 | 7717563 | 3966889 | 3750674 | 13.96 | 11.92 | 982 | 1099 |
| 10 | Nadia | 3,927 | 4604827 | 2366853 | 2237974 | 5167600 | 2653768 | 2513832 | 19.54 | 12.22 | 1173 | 1316 |
| 11 | North 24- Parganas | 4,094 | 8934286 | 4638756 | 4295530 | 10009781 | 5119389 | 4890392 | 22.69 | 12.04 | 2182 | 2445 |
| 12 | Hooghly | 3,149 | 5041976 | 2589625 | 2452351 | 5519145 | 2814653 | 2704492 | 15.77 | 9.46 | 1601 | 1753 |
| 13 | Bankura | 6,882 | 3192695 | 1636002 | 1556693 | 3596674 | 1838095 | 1758579 | 13.82 | 12.65 | 464 | 523 |
| 14 | Purulia | 6,259 | 2536516 | 1298078 | 1238438 | 2930115 | 1496996 | 1433119 | 14.02 | 15.52 | 405 | 468 |
| 15 | Howrah | 1,467 | 4273099 | 2241898 | 2031201 | 4850029 | 2500819 | 2349210 | 14.57 | 13.50 | 2913 | 3306 |
| 16 | Kolkata | 185 | 4572876 | 2500040 | 2072836 | 4496694 | 2356766 | 2139928 | 3.93 | -1.67 | 24718 | 24306 |
| 17 | South Twenty Four Parganas | 9,960 | 6906689 | 3564993 | 3341696 | 8161961 | 4173778 | 3988183 | 20.85 | 18.17 | 693 | 819 |
| 18 | Paschim Medinipur*# | 9,345 | 5193411 | 2648048 | 2545363 | 5913457 | 3007885 | 2905572 | 15.76 | 13.86 | 556 | 631 |
| 19 | Purba Medinipur* | 4,736 | 4417377 | 2268322 | 2149055 | 5095875 | 2629834 | 2466041 | 14.87 | 15.36 | 933 | 1081 |

*Figures of Paschim Medinipur & Purba Medinipur for 2001 have been recast as erstwhile Medinipur divided into two districts after 2001 Census.

Darjeeling including present district Kalimpong, Jalpaiguri including present district Alipurduar, Bardhaman- combined of Purba Bardhaman and Paschim Bardhaman, Paschim Medinipur including present Jhargram district.



Table 1.2 Administrative Units in West Bengal (As on 31.12.2015)

Number

| Division and District | Subdivision | Police Station # | Development Blocks | Panchayat Samiti | Gram Panchayat | Villages | Municipalities | MC |
|----------------------------|-------------|------------------|--------------------|------------------|----------------|--------------|----------------|----------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| West Bengal | 66 | 508(30) | 341 | 333 | 3347 | 40218 | 118 | 7 |
| Burdwan Division | 27 | 192 (14) | 164 | 164 | 1524 | 25009 | 43 | 3 |
| Burdwan | 6 | 36(3) | 31 | 31 | 277 | 2502 | 6 | 2 |
| Birbhum | 3 | 23(1) | 19 | 19 | 167 | 2458 | 6 | – |
| Bankura | 3 | 24(1) | 22 | 22 | 190 | 3823 | 3 | – |
| Purba Medinipur | 4 | 28(2) | 25 | 25 | 223 | 2998 | 5 | – |
| Paschim Medinipur | 4 | 32(3) | 29 | 29 | 290 | 8695 | 8 | – |
| Hoogly | 4 | 26(3) | 18 | 18 | 207 | 1866 | 12 | 1 |
| Purulia | 3 | 23(1) | 20 | 20 | 170 | 2667 | 3 | – |
| Presidency Division | 21 | 234(9) | 108 | 108 | 1106 | 7697 | 52 | 3 |
| North 24- Parganas | 5 | 47(3) | 22 | 22 | 200 | 1528 | 25 | 1 |
| South 24-Parganas | 5 | 40(2) | 29 | 29 | 310 | 2044 | 7 | – |
| Kolkata | – | 69(0) | – | – | – | – | – | 1 |
| Howrah | 2 | 27(2) | 14 | 14 | 157 | 650 | 1 | 1 |
| Nadia | 4 | 23(1) | 17 | 17 | 185 | 1308 | 11 | – |
| Murshidabad | 5 | 28(1) | 26 | 26 | 254 | 2167 | 8 | – |
| Jalpaiguri Division | 18 | 82(7) | 69 | 61 | 717 | 7512 | 23 | 1 |
| Uttar Dinajpur | 2 | 10(1) | 9 | 9 | 98 | 1494 | 4 | – |
| Dakshin Dinajpur | 2 | 9(1) | 8 | 8 | 65 | 1631 | 3 | – |
| Malda | 2 | 13(1) | 15 | 15 | 146 | 1772 | 2 | – |
| Jalpaiguri | 2 | 14(1) | 7 | 7 | 80 | 406 | 3 | – |
| Alipurduar | 1 | 8(0) | 6 | 6 | 66 | 327 | 1 | – |
| Darjeeling | 4 | 16(2) | 12 | 4* | 134 | 688 | 4 | 1 |
| Cooch Behar | 5 | 12(1) | 12 | 12 | 128 | 1194 | 6 | – |

30 Women Police Stations are mentioned in parenthesis but excludes 43 G.R.P. of Sealdah, Howrah, Kharagpur & Siliguri and 6 Cyber Crime Police Stations along with a Special Task Force Police Station

* Figures related to Siliguri Mahakuma Parisad only Darjeeling Hill Council Area is excluded and this Hill Council Area is Constituted of 112 Gram Panchayats

M.C.= Municipal Corporation

Sources:

- (1) Directorate of Panchayat & Rural Development, Govt of West Bengal
- (2) Primary Census Abstract, 2011
- (3) Directorate of Police, Govt of West Bengal



Table 1.3: District wise Population of West Bengal By Rural and Urban Areas, 2011.

| State / District | Population (Census 2011) | | | % of Urban Population |
|---------------------|--------------------------|-----------------|-----------------|-----------------------|
| | Total | Rural | Urban | |
| WEST BENGAL | 91276115 | 62183113 | 29093002 | 31.87 |
| Darjeeling # | 1846823 | 1118860 | 727963 | 39.42 |
| Jalpaiguri # | 3872846 | 2812495 | 1060351 | 27.38 |
| Koch Bihar | 2819086 | 2529652 | 289434 | 10.27 |
| Uttar Dinajpur | 3007134 | 2644906 | 362228 | 12.05 |
| Dakshin Dinajpur | 1676276 | 1439981 | 236295 | 14.10 |
| Maldah | 3988845 | 3447185 | 541660 | 13.58 |
| Murshidabad | 7103807 | 5703115 | 1400692 | 19.72 |
| Birbhum | 3502404 | 3052956 | 449448 | 12.83 |
| Bardhaman # | 7717563 | 4639264 | 3078299 | 39.89 |
| Nadia | 5167600 | 3728727 | 1438873 | 27.84 |
| North 24 Parganas | 10009781 | 4277619 | 5732162 | 57.27 |
| Hooghly | 5519145 | 3390646 | 2128499 | 38.57 |
| Bankura | 3596674 | 3296901 | 299773 | 8.33 |
| Purulia | 2930115 | 2556801 | 373314 | 12.74 |
| Howrah | 4850029 | 1775885 | 3074144 | 63.38 |
| Kolkata | 4496694 | 0 | 4496694 | 100.00 |
| South 24 Parganas | 8161961 | 6074188 | 2087773 | 25.58 |
| Paschim Medinipur # | 5913457 | 5190771 | 722686 | 12.22 |
| Purba Medinipur | 5095875 | 4503161 | 592714 | 11.63 |

Darjeeling including present Kalimpong district, Jalpaiguri including present Alipurduar district, Bardhaman- combined of Purba Bardhaman and Paschim Bardhaman districts, Paschim Medinipur including present Jhargram district.



Table 1.4 Demography Of West Bengal

| Demography | | | |
|--|-------------------|---------------|---------------|
| Population | | 2001 | 2011 |
| | Total | 80176197 | 91,276,115 |
| | Male | 41465985 | 46,809,027 |
| | Female | 38710212 | 44,467,088 |
| % Share in Country's Population | | 7.79 | 7.54 |
| % Share in Urban Population (India) | | 27.97 (27.82) | 31.87 (31.16) |
| % Share in Rural Population (India) | | 72.03 (72.18) | 68.13 (68.84) |
| % Share in Major religious communities (India) | Hindus | 72.47(80.46) | 70.54(79.80) |
| | Muslims | 25.25(13.43) | 27.01(14.23) |
| % Share of SC (India) | | 23.02(16.2) | 23.51(16.6) |
| % Share of ST (India) | | 5.50 (8.2) | 5.8(8.6) |
| % Share of Children (0–6) | | 14.24 (15.93) | 11.59(13.12) |
| Sex Ratio (India) | All | 934 (933) | 950(943) |
| | SC | 949 (936) | 951(945) |
| | ST | 982 (978) | |
| | Children of (0–6) | 960 (927) | 956(919) |
| Population Density (per Sq.Km.) | | 903 (324) | 1030(382) |
| Decadal Growth rate (%) (India) | | 17.77 (21.34) | 13.9(17.70) |

| Education | | | | |
|---|--------|--------------|---------------|---------------------------|
| | | | 2001 | 2011 |
| Literary Rate (%) (India) | All | Total | 68.64 (64.8) | 76.26(74.04) |
| | | Male | 77.20 (75.3) | 81.69(82.14) |
| | | Female | 59.61 (53.7) | 70.54(65.46) |
| | | Rural | 63.42 (38.7) | 72.13(67.8) |
| | | Urban | 81.25 (79.9) | 84.78(84.1) |
| | SC | Total | 59.04 (54.7) | 69.43(66.10) |
| | | Male | 70.54 (66.6) | 77.22(75.20) |
| | | Female | 46.90 (41.9) | 61.23(56.50) |
| | ST | Total | 43.40 (47.1) | 57.93(58.96) |
| | | Male | 57.38 (59.2) | 68.16(68.53) |
| | Female | 29.15 (34.8) | 47.71(49.35) | |
| Gender Gap in Literacy | | | | 11.2% |
| | | | Primary | Upper Primary |
| No. of Schools-SSA-2006 | | | 50255 (Govt.) | 11440 (Govt/ Govt. added) |
| Pupil – Teacher Ratio (Govt)-SSA-'06 | | | 45.20 | 61.41 |
| Net Enrolment Ratio (Overall) SSA'06 | | | 98.03 | 78.74 |
| Dropout Rate (Cohort study SSA-2004) | | | 19.92 | 29.70 |
| Health # | | | | |
| Infant Mortality Rate (India) (per thousand population ↓) | | | 2013 | 31 (40) |
| | | | 2015 | 26 (37) |
| | | | 2016 | 25 (34) |
| Under five Mortality Rate | | | 2015 | 26 (43) |
| Maternal Mortality Rate (per lakh live births) | | | 2014–16 | 101 (130) |
| Birth Rate | | | 2016 | 15.4 (20.4) |
| Death Rate | | | 2016 | 5.8 (6.4) |
| Life Expectancy (2010–14) | | | Male | 68.9 |
| | | | Female | 71.6 |
| Mean age at Marriage (IIPS) | | | Male | 25.9 (26.0) |
| | | | Female | 21.5 (22.3) |
| beds per lakhs population (2003) | | | | 86 |

Source: Sample Registration System

| Administrative Information | |
|---|-------|
| No. of Sub-divisions | 66 |
| No. of Municipalities (2015) | 118 |
| No. of Municipal Corporation (2015) | 7 |
| No. of Blocks | 341 |
| No. of Mouza | 40782 |
| No. of Police Stations (2015) | 508 |
| No. of Gram Panchayats | 3347 |
| Inhabited Villages (2011) | 37463 |
| Area (Sq. Km.) | 88752 |
| No. of Family Welfare Centre | 506 |
| No. of PHCs | 1664 |
| % of Electrified Villages** | 100.0 |
| Electrified Household (%) (31.12.18)** | 100.0 |
| Av. Population Per Bank Offices (SLBC WB) | 11492 |

** Source: WBSEDCL

| Indices | | |
|---------------------------------|----------------|------|
| NHRE-2001 | Value | Rank |
| Human Development Index (India) | 0.4404 (0.381) | 20 |
| Gender Disparity Index (India) | 0.631 (0.676) | 26 |

| Employment | | | |
|--|--------|--------------|--------------|
| | | 2001 | |
| | | Male | Female |
| Work participation rate (India) | Rural | 54.1 (52.11) | 20.9 (30.79) |
| | Urban | 53.7 (50.60) | 11.6 (11.88) |
| % of main worker (India) | Rural | 45.8 (44.51) | 9.1 (16.77) |
| | Urban | 50.2 (47.46) | 9.2 (9.12) |
| % of marginal worker (India) | Rural | 8.3 (7.85) | 11.8 (14.21) |
| | Urban | 3.6 (3.38) | 2.4 (2.43) |
| % of agricultural laboures | | 22.7 (20.82) | |
| No. of registration during the year through employment exch.(2015) | 377233 | | |
| No. of placements effected during 2004 | 11530 | | |

| Others | | |
|--|-----------|---------------|
| Per Capita Income (2014–2015) at current prices in ₹ | 78903 | |
| % of cultivable area to total area (2012–13) | 63.92 | |
| Cultivable area per agri worker (hectres) | 0.77* | |
| % of forest area (2018–19) | 13.38% | |
| % of BPL families (P&RD,2005) | 34.12 | |
| % of Population below poverty (2011–12, RBI) (India) | Total | 19.98 (21.92) |
| | Rural | 22.52 (25.70) |
| | Urban | 14.66 (13.70) |
| No. of Dowry Deaths | 2003 | 313 |
| | 2004 | 386 |
| % change in Dowry Deaths | 2002–2003 | 16.36 |
| | 2003–2004 | 22.32 |

* Source: wb.gov.in

Source: Statistical Hand Book 2015, Department of Statistics, Programme Implementation, Government of West Bengal.

Census of India, 2011 & data.gov.in



Table 1.5: Livestock in West Bengal

(Number in thousand)

| Particulars | 2010 | 2011 | 2012 |
|------------------------|-------|-------|-------|
| (1) | (2) | (3) | (4) |
| 1. Cattle: | 20229 | 20607 | 16514 |
| 2. Buffalo: | 689 | 666 | 597 |
| 3. Others: | 20628 | 21820 | 13234 |
| (i) Sheep | 1714 | 1763 | 1076 |
| (ii) Goats | 18153 | 19315 | 11506 |
| (iii) Horses & Ponnies | 4 | 4 | 4 |
| (iv) Pigs | 757 | 738 | 648 |
| 4. Poultry | 86175 | 97463 | 52838 |
| (i) Fowl | 74315 | 85675 | 46216 |
| (ii) Duck | 11611 | 11540 | 6535 |
| (iii) Other Poultry | 249 | 248 | 86 |

Note:

1) Figures of 2010 & 2011 are projected figures

2) 2012 (19th Livestock Census figure)**Source:**

Directorate of Annual Resources & Animal Health Govt. of West Bengal.

Table 1.6: District-wise Geographical Area of West Bengal

| State/District | Geographical Area in Sq.Kms.(Census 2011) | | |
|---------------------|---|-------------------------|-------------------------|
| | Total Geographical Area | Rural Geographical Area | Urban Geographical Area |
| | In Sq.Kms. | In Sq.Kms. | In Sq.Kms. |
| WEST BENGAL | 88752 | 83632.59 | 5119.41 |
| Darjeeling # | 3149 | 2995.51 | 153.49 |
| Jalpaiguri # | 6227 | 5859.7 | 367.3 |
| Koch Bihar | 3387 | 3318.06 | 68.94 |
| Uttar Dinajpur | 3140 | 3075.26 | 64.74 |
| Dakshin Dinajpur | 2219 | 2187.75 | 31.25 |
| Maldah | 3733 | 3646.91 | 86.09 |
| Murshidabad | 5324 | 5048.06 | 275.94 |
| Birbhum | 4545 | 4424.56 | 120.44 |
| Bardhaman # | 7024 | 6090.35 | 933.65 |
| Nadia | 3927 | 3612.14 | 314.86 |
| North 24 Parganas | 4094 | 3470.09 | 623.91 |
| Hooghly | 3149 | 2820.63 | 328.37 |
| Bankura | 6882 | 6791.53 | 90.47 |
| Purulia | 6259 | 6111.47 | 147.53 |
| Howrah | 1467 | 1035.92 | 431.08 |
| Kolkata | 185 | 0 | 185 |
| South 24 Parganas | 9960 | 9541.28 | 418.72 |
| Paschim Medinipur # | 9368 | 9114.68 | 253.32 |
| Purba Medinipur | 4713 | 4488.69 | 224.31 |

Darjeeling including present Kalimpong district, Jalpaiguri including present Alipurduar district, Bardhaman- combined of Purba Bardhaman and Paschim Bardhaman districts, Paschim Medinipur including present Jhargram district.





LAND USE, CLIMATE AND SOIL

CHAPTER - 2

2.1 LAND USE

The overall land use pattern in the state of West Bengal depends mostly on the physiographic condition of the area. Total geographical area of the state is divided into two major classes i.e. (a) arable land, that includes net sown area and fallow land (b) non-arable land, which includes forest area not available for cultivation and other uncultivable land excluding current fallow. The percentage of arable land is about 63.48% and about 34.36% land is under non-arable category (Economic Review, GoWB, 2009-10), which includes notified forest area to the tune of 13.38% of total geographical area. Agricultural activities are mostly restricted to the Gangetic plains having fertile cultivable land. The percentage of net sown area is higher (above 70%) in Uttar and Dakshin Dinajpur, Nadia, Murshidabad, Cooch behar, North 24-Parganas, Purba Bardhaman, Paschim Bardhaman and Birbhum districts. High percentage of forest cover exists in the Districts having hills and mountain ranges and also in the coastal areas. Protected forests also cover considerable areas in Purulia, Bankura, Paschim Medinipur, Jhargram, Paschim Bardhaman and Birbhum districts. The maximum area under forest (44.68%) is found in erstwhile Darjeeling district.

2.2 CLIMATE

In general, the climate of West Bengal varies from subhumid to perhumid with uniformity of temperature. The tropic of cancer runs across the middle of Nadia, erstwhile Burdwan, northern parts of Bankura and Purulia districts. In spite of its position in equatorial zone, the Himalayan Mountains in the north, Bay of Bengal in the south and extensive network of rivers, canals, tanks etc. do not allow extreme climatic conditions to prevail in the state,

Heavy rainfall occurs in the northern part of West Bengal and gradually decreases towards south forming an area of moderate rainfall zone around central part of West Bengal.

Annual rainfall is maximum (>3000 mm) at the foothill region on the north (sub-Himalayan West Bengal) whereas, the coastal region in the south receives around 1500-2000 mm of rainfall and it decreases to 900 mm in South-West. The average annual rainfall in the state is about 1,900 mm of which 1,600 mm occurs during monsoon months.

In the Northern part of the state that includes the mountain region (Himalayas), temperature ranges from freezing point to 10°C in winter. It hovers around 12°C to 18°C in the plains. January is the coldest month and winter starts from the end of November and extends to February. Darjeeling has a normal mean temperature ranging from 5.8°C to 17.0°C where snowfall also occurs occasionally. Rest of the area has mean winter temperature ranging from 9°C to 14°C.

The summer season begins from the month of March and temperature starts rising upto June. May is the hottest month. The summer temperature shows variations from 20°C in Darjeeling district to about 48°C in Purulia district. Temperature in the rainy seasons is more or less uniform in the plains and it varies from 21°C at Kolkata to 30°C at Canning. This uniformity indicates the influence of southwest monsoon in lowering temperatures.

2.3 SOIL

In the Himalayan region soils are predominantly shallow to moderately shallow but also deep at places, well drained, coarse-loamy to gravelly loamy in texture. These soils occur on steep side slopes. These are classified as Typic Haplumbrepts and Typic Udorthents.

In the foothills of Himalayas and in piedmont plains soils are deep to very deep, imperfectly drained and coarse-loamy to fine loamy in texture and are placed in Aquit Ustifluvents and Fluventic Eutrochrepts.

Soils of the alluvial plain which includes Indo-gangetic alluvium (recent, active and old) are also very deep,



imperfectly to poorly drained, fine-loamy and also coarse-loamy in texture and with moderate flooding problem in some cases. These soils are classified as Aeris Haplaquepts, Typic Fluvaquents, Typic Haplaquepts, and Typic Ustochrepts. Undulating plain area is represented by very deep, fine-loamy and coarse-loamy soils with moderate erosion and classified as Aeris Ochraqualfs, Typic Ustifluvents and Typic Haplustalfs.

The western part of the state i.e., predominantly Chhotanagpur plateau area has soils shallow to very shallow, well-drained and gravelly loam and coarse-loamy in texture with moderate erosion whereas soils in the remaining part are deep to very deep, well drained, fine loamy in texture. They are classified as Lithic Haplustalfs and Typic Haplustalfs.

Coastal plain is represented by soils of both sandy as well as fine in texture, very deep with salinity problems in some places. Soils are placed in Aquic Ustipsamments and Vertic Haplaquepts. Whereas soils of delta plain are very deep, imperfectly to poorly drained, fine in texture and has the problem of inundation and salinity and classified as Aeris Haplaquepts and Typic Haplaquepts.

The physiography of West Bengal can be divided into two major regions:

- A. Himalayan Region
- B. Gangetic Plains

A. Himalayan Region

This is sub-divided further into two parts:

- i) **Darjeeling Himalayas:** This zone consists of Darjeeling district (except the Siliguri Sub-Division) and

Kalimpong District. The hills are comparatively of recent origin, generally steep sided and prone to landslides. Soils are brown, loamy in nature, rich in nutrients, organically rich and acidic in reaction. Most of the rivers originate here.

- ii) **Sub-Himalayan:** This zone comprises of the plains districts of Alipurduar, Jalpaiguri and Cooch behar and Siliguri Sub-Division of Darjeeling district. Soils are mostly sandy, highly acidic, heavily leached and poor in base and plant nutrients. Since most of the hilly river flow through this region, these areas are flood prone.

B. Gangetic Plains

The Lower Ganga Plain in West Bengal forms a part of the Indo-Gangetic Plains.

18 districts of West Bengal are contained in this physiographic region. This region is further divided into four micro physiographic zones. These are

- Barind tract comprising Malda, North and South Dinajpur districts.
- Moribund Delta comprising of Murshidabad and Nadia districts.
- Proper Delta consisting of the districts of Purba Bardhaman, Paschim Bardhaman, Kolkata, Hooghly, Howrah, South & North 24-Parganas.
- Rarh plain is spread over Purba and Paschim Medinipur district, Jhargram District, Bankura, Birbhum and Purulia.

(Agra climatic zoning refers to the division of an area of land into land resource units, based on numerical expressions of crop climate quantified in the form of agro-climatic indices, having an unique combination of landforms, soils and climatic characteristics with a specific range of potentials and constraints for land use.)

Table 2.1: Mean Maximum and Minimum Temperature By Station and Month in West Bengal (Average of daily Maximum and Minimum Temperature) - 2005

| Station/Degrees in Celsius | January | | February | | March | | April | | May | | June | |
|----------------------------|---------|-----|----------|-----|-------|-----|-------|-----|-----|-----|------|-----|
| | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Hill Station | | | | | | | | | | | | |
| Kalimpong | 12 | 9 | 14 | 12 | 20 | 15 | 23 | 17 | 22 | 16 | 25 | 19 |
| Darjeeling | 9 | 1 | 13 | 4 | 15 | 6 | 19 | 8 | 18 | 10 | 19 | 13 |



| Station/Degrees in Celsius | January | | February | | March | | April | | May | | June | |
|----------------------------------|---------|-----|----------|-----|-------|-----|-------|-----|-----|-----|------|-----|
| | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Sub Himalayan West Bengal | | | | | | | | | | | | |
| Jalpaiguri | 24 | 12 | 27 | 15 | 30 | 18 | 32 | 21 | 31 | 23 | 33 | 24 |
| Coochbehar | 23 | 11 | 26 | 15 | 29 | 18 | 30 | 20 | 30 | 23 | 32 | 25 |
| Balurghat | 25 | – | 34 | 12 | – | – | – | – | 37 | 23 | 39 | 30 |
| Malda | 23 | 13 | 28 | 17 | 32 | 21 | 35 | 24 | 35 | 25 | 36 | 27 |
| Gangetic West Bengal | | | | | | | | | | | | |
| Kolkata | 25 | 15 | 30 | 19 | 33 | 23 | 35 | 26 | 36 | 27 | 36 | 28 |
| Krishnanagar | 25 | 16 | 30 | 22 | 34 | 26 | 35 | 27 | 37 | 29 | 38 | 30 |
| Berhampur | 23 | 13 | 28 | 18 | 32 | 21 | 35 | 24 | 37 | 27 | 36 | 26 |
| Burdwan | 24 | 13 | 30 | 18 | 33 | 22 | 35 | 24 | 37 | 25 | 38 | 27 |
| Suri | 24 | 12 | 29 | 16 | 33 | 20 | 36 | 23 | 37 | 25 | 38 | 27 |
| Bankura | 24 | 13 | 30 | 17 | 34 | 22 | 36 | 25 | 39 | 27 | 39 | 28 |
| Midnapur | 25 | 15 | 30 | 18 | 34 | 23 | 36 | 25 | 37 | 25 | 38 | 28 |
| Purulia | – | – | – | – | – | – | – | – | – | – | – | – |

Table 2.2: Mean Maximum and Minimum Temperature By Station and Month in West Bengal (Average of daily Maximum and Minimum Temperature) - 2005

| Station/Degrees in Celsius | July | | August | | September | | October | | November | | December | |
|----------------------------------|------|-----|--------|-----|-----------|-----|---------|-----|----------|-----|----------|-----|
| | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Hill Station | | | | | | | | | | | | |
| Kalimpong | 23 | 20 | 30 | 26 | 26 | 20 | 25 | 17 | 23 | 13 | – | – |
| Darjeeling | 19 | 13 | 20 | 13 | 21 | 13 | 17 | 9 | 16 | 4 | 14 | 6 |
| Sub Himalayan West Bengal | | | | | | | | | | | | |
| Jalpaiguri | 32 | 25 | 32 | 25 | 34 | 25 | 30 | 21 | 30 | 16 | 28 | 13 |
| Coochbehar | 32 | 25 | 32 | 26 | 33 | 25 | 29 | 21 | 29 | 16 | 27 | 12 |
| Balurghat | – | 27 | – | – | – | – | – | – | 28 | 17 | – | 14 |
| Malda | 32 | 26 | 33 | 27 | 34 | 27 | 30 | 24 | 28 | 18 | 26 | 14 |
| Gangetic West Bengal | | | | | | | | | | | | |
| Kolkata | 32 | 26 | 33 | 27 | 33 | 26 | 30 | 24 | 30 | 18 | 27 | 15 |
| Krishnanagar | 33 | 27 | 33 | 27 | 34 | 26 | 31 | 24 | 30 | 17 | 26 | 13 |
| Berhampur | 32 | 26 | 32 | 26 | 33 | 26 | 30 | 23 | 28 | 18 | 26 | 14 |
| Burdwan | 32 | 26 | 33 | 26 | 33 | 26 | 30 | 23 | 29 | 16 | 26 | 14 |
| Suri | 32 | 26 | 33 | 26 | 33 | 25 | 22 | 22 | 29 | 15 | 26 | 13 |
| Bankura | 32 | 26 | 33 | 27 | 33 | 26 | 30 | 24 | 29 | 16 | 26 | 12 |
| Midnapur | 32 | 26 | 32 | 26 | 31 | 26 | 30 | 24 | 28 | 17 | 25 | 14 |
| Purulia | – | – | – | – | – | – | – | – | – | – | – | – |



Table 2.3: Annual Rainfall in West Bengal

| District | Normal | 1990 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|-------------------|--------|------|------|------|------|------|------|------|
| (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) |
| Burdwan | 1271 | 1557 | 1229 | 856 | 1322 | 1030 | 1216 | 1045 |
| Birbhum | 1234 | 1542 | 1278 | 985 | 1482 | 976 | 1319 | 1130 |
| Bankura | 1271 | 1640 | 1231 | 917* | 1740 | 1269 | 1809 | 1028 |
| Purba Medinipur | 1428 | 2152 | 1301 | 1244 | 1538 | 1342 | 2078 | 1728 |
| Paschim Medinipur | | | 1191 | 1055 | 1656 | 1222 | 1977 | 1119 |
| Howrah | 1676 | 1953 | 1352 | 1219 | 1502 | 1138 | 2179 | 1189 |
| Hooghly | 1516 | 1571 | 1263 | 1044 | 1556 | 1152 | 1494 | 1188 |
| North 24-Parganas | 1579 | 2208 | 1410 | 1180 | 1669 | 1208 | 1658 | 1321 |
| South 24-Parganas | | | 1415 | 1227 | 1535 | 1420 | 1701 | 1413 |
| Kolkata (Alipur) | 1605 | 2077 | 1583 | 1536 | 1583 | 1656 | 2355 | 1381 |
| Nadia | 1401 | 1685 | 1209 | 940 | 1488 | 1039 | 1245 | 1129 |
| Murshidabad | 1338 | 1538 | 1180 | 989 | 1526 | 1001 | 1143 | 1126 |
| Uttar Dinajpur | 1802 | 2377 | 1521 | 1588 | 1785 | 1163 | 1580 | 1328 |
| Dakshin Dinajpur | 1498 | 1526 | 1256 | 1683 | 1479 | 1244 | 1428 | 1327 |
| Malda | | | 1204 | 1129 | 1440 | 955 | 1265 | 1293 |
| Jalpaiguri | 4136 | 3434 | 3155 | 3882 | 3146 | 3787 | 3506 | 3047 |
| Darjeeling | 3212 | 3810 | 3341 | 4018 | 3415 | 2845 | 3254 | 3186 |
| Cooch Behar | 3193 | 3157 | 2438 | 3673 | 2669 | 3354 | 2431 | 2552 |
| Purulia | 1365 | 1811 | 1024 | 798 | 1557 | 1396 | 1560 | 1023 |

Source:

i) Agricultural Meteorologist, Directorate of Agriculture, Govt. of West Bengal (Other than District Kolkata)

ii) Meteorological Department, Govt. of India (Only for Kolkata)

Table 2.4: Agro-climate regions/zones in India

| SL. No. | Agro-climatic regions in India | States represented |
|---------|---|---|
| 1 | Western Himalayan regions | Himachal Pradesh, Jammu & Kashmir, Uttarakhand |
| 2 | Eastern Himalayan region | Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura, West Bengal |
| 3 | Lower Gangetic plain region | West Bengal |
| 4 | Middle Gangetic plain region | Uttar Pradesh, Bihar |
| 5 | Upper Gangetic plain region | Uttar Pradesh |
| 6 | Trans Gangetic plain region | Chandigarh, Delhi, Haryana, Punjab, Rajasthan |
| 7 | Eastern plateau and hills region | Chhattisgarh, Jharkhand, Madhya Pradesh, Maharashtra, Orissa, West Bengal |
| 8 | Central plateau and hills region | Madhya Pradesh, Rajasthan, Uttar Pradesh |
| 9 | Western plateau and hills region | Madhya Pradesh, Maharashtra |
| 10 | Southern plateau and hills region | Andhra Pradesh, Karnataka, Tamil Nadu |
| 11 | East coast plains and hills region | Andhra Pradesh, Orissa, Pondicherry, Tamil Nadu |
| 12 | West coast plains and ghat region | Goa, Karnataka, Kerala, Maharashtra, Tamil Nadu |
| 13 | Gujarat plains and hills region | Gujarat, Dadra & Nagar Haveli, Daman & Diu |
| 14 | Western dry region | Rajasthan |
| 15 | Island region | Andaman & Nicobar Islands, Lakshadweep |

Source: Planning Commission (Khanna, 1989) has identified 15 resource development regions in the country, 14 in the main land and remaining one in the islands of Bay of Bengal and Arabian Sea.



Table 2.5: Land utilisation in West Bengal

| Land Use | Area (m.ha.) |
|--|--------------|
| Total geographical area | 8.87 |
| Reporting area for land utilisation statistics | 8.84 |
| Forest | 1.09 |
| Area is available for cultivation | 1.63 |
| Other uncultivated land excluding fallow land | 0.36 |
| Fallow land | 0.43 |
| Net area shown | 5.33 |

Source: Economic Review, Bureau of Applied Economics and Statistics. GeM. of West Senpl, 1988-89.

Table 2.6: Description of agro-ecological subregions

| Agro-ecological sub region number | Description | Area(per cent of TGA) (8.87 m. ha) |
|-----------------------------------|--|------------------------------------|
| 16.2 | Darjeeling Himalayas, warm, perhumid agro-ecological sub region with shallow to moderately deep, loamy Brown and Red hill soils, low to medium Awc (75-100 mm/m) and more than 300 days of LGP | 2.9 |
| 16.1 | Moderately to gently sloping foothills of Bhutan Himalayas, warm to hot perhumid agro-ecological sub region with shallow to moderately deep loamy skeletal to loamy Tarai soils, low to medium AWC (50-120 mm/m) and 270-300 days of LGP | 1.9 |
| 15.3 | Level Teesta Plain, hot, perhumid agro-ecological sub region with deep, loamy to clayey alluvium-derived soils, medium AWC (100-150 mm/m) and 270-300 days of LGP. | 9.6 |
| 15.1 | Nearly level to gently sloping Ganga plain (Bengal Basin), hot moist-Subhumid agro-ecological sub-region with deep, loamy to clayey, alluvium-derived soils, medium to high AWC (150-200 mm/m) and 210-240 days of LGP. | 55.7 |
| 18.5 | Gently sloping to level Gangetic lower Delta, moist sub- humid agro-ecological sub region with deep, loamy to clayey coastal and Deltaic Alluvium-derived soils, medium Awc (150-200 mm/m) and 240-270 days of LGP. | 7.6 |
| 12.3 | Gently sloping and/or gently undulating Chottanagpur plateau, hot, dry-subhumid agro-ecological sub region, deep, loamy to clayey Red and Lateritic soils, medium Awc (100-150 mm/m) and 150-180 days) of LGP. | 22.3 |

(Source: Soils of West Bengal for Optimising Land Use. NBSS Publ. 27b (Soils of India Series). National Bureau of Soil Survey and Land Use Planning. Nagpur (India), December, 1992)

Table 2.7: Soils under limiting depth classes

| Class | Location | | Area affected | |
|-------------------------------|--------------------|--|---------------|-----------------------------------|
| | Agro-eco subregion | Distribution (District) | '000ha | Percent of Mapped Area (% of TGA) |
| Very Shallow (0-25cm) | Hot Subhumid | Purulia | 30.7 | 0.4 (0.3) |
| Shallow (25-50 cm) | Warm Perhumid | Part of erstwhile Darjeeling | 15.4 | 0.2 (0.2) |
| | Hot Subhumid | Purulia, Erstwhile Medinipur, Bankura | 303.00 | 3.5 (3.4) |
| Moderately shallow (50-75 cm) | Warm Perhumid | Part of erstwhile Darjeeling | 109.8 | 1.3 (1.2) |
| | Hot Subhumid | Part of erstwhile Medinipur, erstwhile Barddhaman, Birbhum, Purulia, Bankura | 15.4 | 0.2 (0.2) |

(Source: Soils of West Bengal for Optimising Land Use. NBSS Publ. 27b (Soils of India Series). National Bureau of Soil Survey and Land Use Planning. Nagpur (India), December, 1992)



Table 2.8: Soils under limiting drainage classes

| Class | Location | | Area affected | |
|-----------|-------------------------------|--|---------------|-----------------------------------|
| | Agro-eco subregion | Distribution (District) | '000ha | Percent of Mapped Area (% of TGA) |
| Very poor | Hot Subhumid | Part of erstwhile Medinipur, Hooghly and 24-Parganas(S) | 173.4 | 2.0 (1.9) |
| Poor | Hot Part Perhumid to Subhumid | Part of both 24-Parganas, Nadia, Murshidabad, Jalpaiguri, Cooch behar, erstwhile Medinipur, Howrah Hooghly | 2453.3 | 28.4 (27.6) |
| Imperfect | Hot Subhumid | Part of erstwhile Bardhaman, Birbhum, Hooghly, W. Dinajpur, Malda, erstwhile Medinipur & Purulia | 1747.6 | 20.3 (19.7) |
| Excessive | Warm Perhumid | Part of erstwhile Darjeeling and erstwhile Jalpaiguri | 56.1 | 0.6(0.6) |
| | Hot Subhumid | Part of Bankura & Purulia | 8.6 | 0.1 (0.1) |

(Source: Soils of West Bengal for Optimising Land Use. NBSS Publ. 27b (Soils of India Series). National Bureau of Soil Survey and Land Use Planning. Nagpur (India), December, 1992)

Table 2.9: Soils under limiting erosion classes

| Class | Location | | Area affected | |
|----------|--------------------|--|---------------|-----------------------------------|
| | Agro-eco subregion | Distribution (District) | '000ha | Percent of Mapped Area (% of TGA) |
| Severe | Warm Perhumid | Erstwhile Darjeeling (part) | 37.0 | 0.4(0.4) |
| | Hot Subhumid | Western part of Purulia, Birbhum, Bankura and erstwhile Medinipur | 20.4 | 0.2(0.2) |
| Moderate | Hot Subhumid | Western part of erstwhile Bardhaman Birbhum, erstwhile Medinipur, Bankura Murshidabad, Malda, N&S Dinajpur, Cooch-Behar and entire Purulia | 1137.1 | 13.2 (12.8) |
| | Warm Perhumid | Erstwhile Darjeeling and erstwhile Jalpaiguri (part) | 166.0 | 1.9 (1.8) |

(Source: Soils of West Bengal for Optimising Land Use. NBSS Publ. 27b (Soils of India Series). National Bureau of Soil Survey and Land Use Planning. Nagpur (India), December, 1992)

Table 2.10: Soils under limiting textural classes (surface)

| Class | Location | | Area affected | |
|---------------|------------------------------|--|---------------|-----------------------------------|
| | Agro-eco subregion | Distribution (District) | '000ha | Percent of Mapped Area (% of TGA) |
| Sandy | Hot Subhumid | Coastal part of erstwhile Medinipur | 13.7 | 0.16 (0.2) |
| Gravelly loam | Hot Subhumid / Warm Perhumid | Part of erstwhile Darjeeling,erstwhile Medinipur, Bankura, Purulia | 488.4 | 5.6 (5.5) |
| Clayey | Hot Subhumid | 24-Parganas(S), erstwhile Medinipur, erstwhile Bardhaman, Murshidabad, Nadia | 1550.7 | 18.0 (17.5) |

(Source: Soils of West Bengal for Optimising Land Use. NBSS Publ. 27b (Soils of India Series). National Bureau of Soil Survey and Land Use Planning. Nagpur (India), December, 1992)



Table 2.11: Soils under limiting salinity classes

| Class | Location | | Area affected | |
|-------------|--------------------|--|---------------|-----------------------------------|
| | Agro-eco subregion | Distribution (District) | '000ha | Percent of Mapped Area (% of TGA) |
| Very Strong | Hot Subhumid | South strong 24-Parganas & erstwhile Medinipur | 241.0 | 2.8 (2.7) |
| Strong | –do– | –do– | 5.7 | 0.06 (0.06) |
| Moderate | –do– | –do– | 131.0 | 1.5 (1.5) |

(Source: *Soils of West Bengal for Optimising Land Use*. NBSS Publ. 27b (Soils of India Series). National Bureau of Soil Survey and Land Use Planning, Nagpur (India), December, 1992)

Table 2.12: Soils under limiting flooding classes

| Class | Location | | Area affected | |
|----------|--------------------|--|---------------|-----------------------------------|
| | Agro-eco subregion | Distribution (District) | '000ha | Percent of Mapped Area (% of TGA) |
| Moderate | Hot Humid | Part of Jalpaiguri, Cooch Bihar, North Dinajpur | 112.0 | 1.3(1.3) |
| | Hot Subhumid | Part of North Dinajpur, Malda, Murshidabad, Nadia, Erstwhile Bardhaman, 24-Parganas, Erstwhile Medinipur | 931.2 | 10.8 (10.5) |
| Severe | Hot Subhumid | Part of Hooghly Medinipur, Murshidabad, Nadia and 24-Parganas | 907.2 | 10.5 (10.2) |

(Source: *Soils of West Bengal for Optimising Land Use*. NBSS Publ. 27b (Soils of India Series). National Bureau of Soil Survey and Land Use Planning, Nagpur (India), December, 1992)

Table 2.13: Soils under limiting water logging classes

| Class | Location | | Area affected | |
|----------|------------------------------------|--|---------------|-----------------------------------|
| | Agro-eco subregion | Distribution (District) | '000ha | Percent of Mapped Area (% of TGA) |
| Moderate | Hot Perhumid | Cooch behar, erstwhile Jalpaiguri | 111.3 | 1.3 (1.2) |
| | Hot, moist Subhumid (Bengal Basin) | W.Dinajpur erstwhile Medinipur erstwhile Bardhaman, Birbhum, Murshidabad | 337.5 | 3.9 (3.8) |
| Slight | Hot, Perhumid | erstwhile Darjeeling erstwhile Jalpaiguri, Cooch behar | 189.8 | 2.2 (2.1) |
| | Hot,moist, Subhumid (Bengal Basin) | W.Dinajpur Malda, Murshidabad, Birbhum, erstwhile Medinipur, Hooghly, erstwhile Bardhaman, Nadia, Howrah | 618.5 | 7.1 (6.9) |

(Source: *Soils of West Bengal for Optimising Land Use*. NBSS Publ. 27b (Soils of India Series). National Bureau of Soil Survey and Land Use Planning, Nagpur (India), December, 1992)





3.1 FOREST LAND, FOREST COVER, AND VEGETATION

West Bengal (Area 88,752 Sq. K.M. Comprising of 23 Districts) is the only Indian State to have a coastline as well as the Himalayas and is situated between 21°20' and 27°32' N latitude and 85°50' and 89°52' E longitudes. Five States (Sikkim, Assam, Bihar, Jharkhand and Orissa) and three countries (Bhutan, Nepal and Bangladesh) surround West Bengal- Sikkim to the North, Bhutan to the North and North-East, Assam and Bangladesh to the East, Nepal, Bihar and Jharkhand to the West and Jharkhand and Orissa to the South-West. The extreme south end touches the Bay of Bengal.

Total recorded forest land in the state is 11,879 sq. km, of which 7,054 sq.km. is Reserved Forest, 3,772 sq.km. is Protected Forest and 1,053 sq.km. is Unclassed State Forest, thus constituting 13.38% of the total geographical area of the state.

The forest cover including the forests created outside the recorded forest area is 15.68% of the geographical area as assessed by the GIS Cell of the W.B. Forest Department in the year 2006 on the basis of Satellite Imagery procured from NRSA, Hyderabad in digital data format. While computing the forest cover of the State, the protocol developed by RRSSC, Kharagpur under Dept. of Space, Gal, NRSA, Hyderabad in earlier studies was followed. Estuarine water bodies like rivers & creeks in mangrove forest and river flowing through the recorded forest land in Jalpaiguri and other districts have been included while computing the forest cover. Similarly large portions of farm forestry plantations, raised outside forest land, having forest like micro-ecosystem, have been enumerated as forest cover.

As per classification of satellite imageries, the vegetation cover of the state is more than 27% of the geographical area as in 2006. The vegetation cover includes village orchards/ groves, tea garden and horticulture plantations.

Table 3.1: Demographic data

| | |
|--|------------------------|
| Geographical Area | 88,752 sq km |
| Population (as per Census 2011) | 91.27 million |
| Urban | 29.09 million (11.29%) |
| Rural | 62.18 million (88.71%) |
| Tribal | 5.30 million (5.80%) |
| Average Population Density (as per Census 2011) | 1,028 per sq km |
| Livestock population (as per 19 th Live Stock Census) | 30.35 million |
| No. of Districts (as per Census 2011) | 19 (Now 23) |
| No. of Hill Districts | 1 (Now 2) |
| No. of Tribal Districts | 11 |

Table 3.2: Land Use Pattern

| Land use Pattern | | |
|--|-----------------|------------|
| Land Use | Area in '000 ha | Percentage |
| Total Geographical Area | 8,875 | |
| Reporting area for land utilization | 8,683 | 100.00 |
| Forests | 1,173 | 13.50 |
| Not available for land cultivation | 1,853 | 21.34 |
| Permanent pastures and other grazing lands | 2 | 0.03 |
| Land under misc. tree crops and groves | 50 | 0.57 |
| Culturable wasteland | 17 | 0.20 |
| Fallow land other than current fallows | 11 | 0.13 |
| Current fallows | 339 | 3.90 |
| Net area sown | 5,238 | 60.33 |

Source: Land use Statistics, Ministry of Agriculture, Govt, 2014-15



Table 3.3: Forest Cover Within Recorded Forest Area

| Forest Cover Within Recorded Forest Area | |
|--|--------------------|
| Very Dense Forest | 2,608 sq km |
| Moderately Dense Forest | 2,353 sq km |
| Open Forest | 2,116 sq km |
| Sub Total | 7,077 sq km |

Table 3.4: Forest Cover Outside Recorded Forest Area

| Forest Cover Outside Recorded Forest Area | |
|---|---------------------|
| Very Dense Forest | 411 sq km |
| Moderately Dense Forest | 1,807 sq km |
| Open Forest | 7,607 sq km |
| Sub Total | 9,825 sq km |
| Total Forest Cover | 16,902 sq km |
| Tree Cover | 2,006 sq km |
| Total Forest & Tree Cover | 18,908 sq km |
| Per capita Forest & Tree Cover | 0.02 ha |
| Of State's Geographical Area | 21.304% |
| Of India's Forest & Tree Cover | 2.34% |

Table 3.5: Forest Cover in different Slope Classes

| Forest Cover in different slope classes in West Bengal (Area in km ²) | | | | | | |
|---|-------------------|--------------|--------------|--------------|-----------------|------------|
| Slope (in degrees) | Geographical Area | VDF | MDF | OF | Total | Scrub |
| 0-5 | 85,130 | 2,209 | 3,244 | 8,729 | 14,182 (83.90%) | 131 |
| 5-10 | 1,227 | 141 | 217 | 227 | 585 (3.46%) | 6 |
| 10-15 | 508 | 119 | 151 | 152 | 422 (2.50%) | 3 |
| 15-20 | 539 | 147 | 157 | 171 | 475 (2.81%) | 2 |
| 20-25 | 514 | 149 | 148 | 168 | 465 (2.75%) | 2 |
| 25-30 | 404 | 122 | 117 | 134 | 373 (2.21%) | 1 |
| >30 | 430 | 132 | 126 | 142 | 400 (2.37%) | 1 |
| Total | 88,752 | 3,019 | 4,160 | 9,723 | 16,902 | 146 |

(Based on SRTM, Digital Elevation Model, 30 m, 2016)

Table 3.6: Percentage area under different forest types of West Bengal

| Sl. No. | Forest Type | % of Forest cover |
|---------|---|-------------------|
| 1. | 2B/2S3 Sub Himalayan Secondary Wet Mixed Forest | 2.09 |
| 2. | 3C/C1a(I) East Himalayan Sal | 2.35 |
| 3. | 3C/C1b(I) East Himalayan Upper Bhabar Sal | 0.90 |



| Sl. No. | Forest Type | % of Forest cover |
|---------|--|-------------------|
| 4. | 3C/C1b(ii) East Himalayan Lower Bhabar Sal | 0.69 |
| 5. | 3C/C1c Eastern Tarai Sal Forest | 1.91 |
| 6. | 3C/C2d (iii) Eastern Heavy Alluvium Plains Sal | 0.02 |
| 7. | 3C/DS1 Moist Sal Savannah | 0.07 |
| 8. | 3C/C3a West Gangatic Moist Mixed Deciduous Forest | 0.08 |
| 9. | 3C/C3b East Himalayan Moist Mixed Deciduous Forest | 2.45 |
| 10. | 3C/C3/2S2 (Secondary Euphorbiaceous Scrub) | 0.06 |
| 11. | 3C/1S1 Low Alluvial Savannah Woodland (<i>Salmania albizzia</i>) | 0.18 |
| 12. | 4B/TS1 Mangrove Scrub | 0.71 |
| 13. | 4B/TS2 Mangrove Forest | 5.89 |
| 14. | 4B/TS3 Salt Water Mixed Forest (Heritiera) | 2.80 |
| 15. | 4B/TS4 Brackish Water Mixed Forest (Heritiera) | 1.80 |
| 16. | 4B/E1 Palm Swamp | 0.87 |
| 17. | 4C/FS2 Submontane Hill-Valley Swamp Forest | 0.03 |
| 18. | 4D/SS2 Barringtonia Swamp Forest | 0.02 |
| 19. | 4D/2S2 Eastern Wet Alluvial Grassland | 0.01 |
| 20. | 5B/C1c Dry Peninsular Sal Forest | 16.31 |
| 21. | 5B/C2 Northern Dry Mixed Deciduous Forest | 1.49 |
| 22. | 5B/DS1 Dry Deciduous Scrub | 0.21 |
| 23. | 5/E5 Butea Forest | 0.12 |
| 24. | 5/1S2 Khair-Sissu Forest | 1.18 |
| 25. | 8B/C1 East Himalayan Sub-Tropical Wet Hill Forest | 2.81 |
| 26. | 11B/C1a Lauraceous Forest | 0.72 |
| 27. | 11B/C1b Buk Oak Forest | 0.33 |
| 28. | 11B/C1c High Level Oak Forest | 0.12 |
| 29. | 12/C3a East Himalayan Mixed Coniferous Forest | 1.90 |
| 30. | 14/C2 East Himalayan Sub-Alpine Birch/Fir Forest | 0.08 |
| 31. | Plantation/ TOF | 51.8 |
| | Total | 100.00 |

Table 3.7: Growing Stock

(in m cum)

| Growing Stock (GS) | | % of Country's GS |
|---------------------------------------|-------|-------------------|
| Growing Stock in Recorded Forest Area | 54.87 | 1.28 |
| Growing Stock in TOF | 32.63 | 1.99 |



Table 3.8: Recorded Forest Area

| Recorded Forest Area | |
|------------------------------|---------------------|
| Reserved Forest | 7,054 sq km |
| Protected Forest | 3,772 sq km |
| Unclassed Forest | 1,053 sq km |
| Total | 11,879 sq km |
| Of State's Geographical Area | 13.38% |
| Of India's Forest Area | 1.55% |

Table 3.9 District-wise Forest Cover of West Bengal

| District-wise Forest Cover | | | | | | | (Area in km ²) | |
|----------------------------|--------------------|-------------------|-------------------|-----------------|------------------|------------------|----------------------------|---------------|
| District | Geo-graphical Area | Very Dense Forest | Mod. Dense Forest | Open Forest | Total | Percentage of GA | Change | Scrub |
| Bankura | 6,882 | 222.33 | 395.27 | 667.98 | 1,285.58 | 18.68 | 15.58 | 28.59 |
| Bardhaman * | 7,024 | 57.53 | 91.78 | 190.00 | 339.31 | 4.83 | 4.31 | 7.35 |
| Birbhum | 4,545 | 1.00 | 34.14 | 149.66 | 184.80 | 4.07 | 7.80 | 8.90 |
| Kolkata | 2,219 | 0.00 | 5.83 | 81.29 | 87.12 | 3.93 | 0.12 | 0.00 |
| Coochbehar | 3,149 | 720.76 | 654.52 | 992.52 | 2,367.80 | 75.19 | 2.80 | 9.21 |
| Dakshin Dinajpur | 1,467 | 0.00 | 50.00 | 253.77 | 303.77 | 20.71 | -0.23 | 0.00 |
| Darjeeling | 3,149 | 0.00 | 14.00 | 146.00 | 160.00 | 5.08 | 0.00 | 0.00 |
| Howrah | 6,227 | 724.22 | 434.92 | 1,703.26 | 2,862.40 | 45.97 | 5.40 | 39.65 |
| Hooghly | 3,387 | 0.00 | 27.00 | 322.06 | 349.06 | 10.31 | 0.06 | 0.00 |
| Jalpaiguri * | 185 | 0.00 | 0.00 | 1.00 | 1.00 | 0.54 | 0.00 | 0.00 |
| Malda | 3,733 | 0.00 | 209.04 | 282.65 | 491.69 | 13.17 | 0.69 | 0.00 |
| Paschim Medinipur * | 5,324 | 0.00 | 53.06 | 291.83 | 344.89 | 6.48 | -1.11 | 0.00 |
| Purba Medinipur | 3,927 | 1.00 | 160.16 | 318.84 | 480.00 | 12.22 | 0.00 | 0.00 |
| Murshidabad | 4,094 | 13.02 | 184.98 | 524.98 | 722.98 | 17.66 | -0.02 | 0.00 |
| Nadia | 9,368 | 256.21 | 591.64 | 1,313.69 | 2,161.54 | 23.07 | 10.54 | 20.24 |
| North 24 Parganas | 4,713 | 1.99 | 197.96 | 620.10 | 820.05 | 17.40 | 0.05 | 2.50 |
| Purulia | 6,259 | 37.36 | 306.94 | 571.58 | 915.88 | 14.63 | 11.88 | 28.68 |
| South 24 Parganas | 9,960 | 983.10 | 745.03 | 1,060.58 | 2,788.71 | 27.99 | -3.29 | 1.00 |
| Uttar Dinajpur | 3,140 | 0.00 | 3.99 | 230.94 | 234.93 | 7.48 | -0.07 | 0.00 |
| Grand Total | 88,752 | 3,018.52 | 4,160.26 | 9,722.73 | 16,901.51 | 19.04 | 54.51 | 146.12 |

* Including Forest Area of both Purba & Paschim Bardhaman Districts, Kalimpong District, Alipurduar District & Jhargram District respectively.



Table: 3.10: Change Matrix of West Bengal

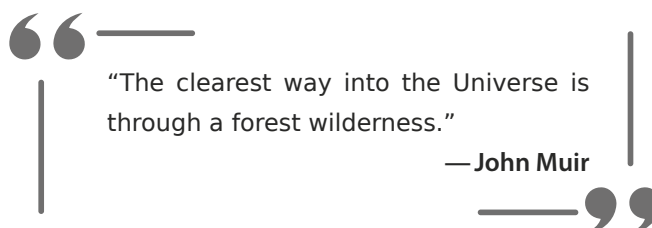
| Change Matrix of West Bengal (Area in km ²) | | | | | | |
|---|-----------------|-------|-------|-----|--------|-----------------|
| Class | 2019 Assessment | | | | | Total ISFR 2017 |
| | VDF | | OF | | NF | |
| Very Dense Forest | 2,963 | 19 | 7 | 1 | 4 | 2,994 |
| Moderately Dense Forest | 53 | 4,070 | 17 | 1 | 6 | 4,147 |
| Open Forest | 3 | 65 | 9,581 | 9 | 48 | 9,706 |
| Scrub | 0 | 0 | 17 | 115 | 4 | 136 |
| Non Forest | 0 | 6 | 101 | 20 | 71,642 | 71,769 |
| Total ISFR 2019 | 3,019 | 4,160 | 9,723 | 146 | 71,704 | 88,752 |
| Net Change | 25 | 13 | 17 | 10 | -65 | |

Table 3.11: Altitude-wise Forest Cover of West Bengal

| Altitude-wise Forest Cover (Area in km ²) | | | | | | |
|---|-------------------|--------------|--------------|--------------|-----------------|------------|
| Altitude Zone (m) | Geographical Area | VDF | MDF | OF | Total | Scrub |
| 0-500 | 86,650 | 2,389 | 3,612 | 9,035 | 15,036 (88.96%) | 146 |
| 500-1000 | 807 | 141 | 272 | 262 | 675 (3.99%) | 0 |
| 1000-2000 | 970 | 267 | 228 | 383 | 878 (5.19%) | 0 |
| 2000-3000 | 292 | 196 | 44 | 40 | 280 (1.66%) | 0 |
| >3000 | 33 | 26 | 4 | 3 | 33 (0.20%) | 0 |
| Total | 88,752 | 3,019 | 4,160 | 9,723 | 16,902 | 146 |

Reasons for change detected in 2019 assessment:

Main reasons for the increase in forest cover in the State are plantation and conservation activities.





4.1 CADRE STRENGTH OF IFS AND WBFS IN WEST BENGAL

4.1.1 IFS Cadre strength of West Bengal as on 01.01.2021

| Sl. No. | Authorised Structure of the Cadre vide G.O No. 16016/2(i)/2011-AIS-(III)(A) dt.13.03.2012 | No of Post | Present Strength of Cadre as on 01.01.2021 | No of Post |
|---------|--|------------|--|------------|
| 1 | Senior Duty Post under the State Govt | 78 | Senior Duty Post | 78* |
| 2 | Central Deputation Reserve @ 20% of (1) above | 15 | Central Deputation | 7 |
| 3 | State Deputation Reserve @ 25% of (1) above | 19 | State Deputation | 20 |
| 4 | Training Reserve @ 3.5% of (1) above | 2 | Training Reserve | 8 |
| 5 | Post to be filled by promotion in accordance with rule 8 of Indian Forest Service Recruitment Rules 1966 not exceeding 33.33% of items (1),(2),(3) and (4) above | 38 | Posts Filled by promotion from WBFS | 33 |
| 6 | Leave Reserve & Junior Posts Reserve @ 16.5% if item (1) above | 12 | Leave Reserve & Junior Posts | 1 |
| 7 | Post to be filled by Direct Recruitment (1+2+3+4+6-5) | 88 | Posts filled by Direct Recruitment | 72 |
| 8 | Total Authorised Strength | 126 | Total Present Strength | 105 |

*Includes 12 IFS officers of Junior Time Scale holding Senior Duty Posts.

4.1.2 WBFS Cadre of West Bengal

Authorised & existing Cadre strength of the West Bengal Forest Service (As per Govt Order No. 1499-For dated 15.05.2000 & 3887-For. dated 10.11.2006) As on 01.01.2021

| Sl. No. | Description | Sanctioned strength | Actually Posted |
|---------|--|---------------------|-----------------|
| 1 | Direct Recruit Officers | 63 | 51 |
| 2 | Promoted Officers | 63 | 55 |
| 3 | Officers in charge of Division/Sr. Duty Post(DFO/DCF) | 23 | 24 |
| 4 | Officers posted as ADFO or Junior Duty Post | 87 | 68 |
| 5 | Officers on Deputation @ 10% of (3+4) | 11 | 16 |
| 6 | Officers undergoing training and leave reserve @ 5% of (3+4) | 5 | 0 |
| | Total Authorised Strength | 126 | 106 |

Names in the list have been arranged as per provisional seniority.



4.2. SANCTIONED STRENGTH OF OFFICERS AND STAFF OF FOREST DIRECTORATE AS ON 31.3.2021

| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|-------------------------------|-------------------|-------------------|-----------|
| 1. | IFS | 126 | 104 | 22 |
| 2. | WBFS | 126 | 103 | 23 |
| 3. | A.O. | 1 | 1 | 0 |
| 4. | FR | 586 | 429 | 157 |
| 5. | DR/Fr. | 1284 | 643 | 641 |
| 6. | FG | 2458 | 1048 | 1410 |
| 7. | HFG | 231 | 59 | 172 |
| 8. | Head Clerk (Regional) | 65 | 53 | 12 |
| 9. | Head Clerk (Directorate) | 8 | 7 | 1 |
| 10. | Accountant (Reg.) | 8 | 1 | 7 |
| 11. | Accountant (Directorate) | 2 | 2 | 0 |
| 12. | Asst. Statistician | 1 | 0 | 1 |
| 13. | Computing Spr. | 2 | 2 | 0 |
| 14. | Computer | 7 | 0 | 7 |
| 15. | UDC (Regional) | 327 | 121 | 206 |
| 16. | UDC (Directorate) | 26 | 20 | 6 |
| 17. | Typist (Directorate) | 15 | 6 | 9 |
| 18. | Typist (Regional) | 28 | 1 | 27 |
| 19. | LDC (Regional) | 327 | 79 | 248 |
| 20. | LDC (Directorate) | 26 | 5 | 21 |
| 21. | Statistician | 1 | 0 | 1 |
| 22. | Drivers | 146 | 39 | 107 |
| 23. | Agriculture Extension Officer | 2 | 0 | 2 |
| 24. | Asst. Foreman (Mech.) | 4 | 0 | 4 |
| 25. | Asst. Saw Doctor | 2 | 1 | 1 |
| 26. | Attendant | 1 | 0 | 1 |
| 27. | Asst. Soil Chemist | 1 | 0 | 1 |
| 28. | Band Saw operator | 10 | 1 | 9 |
| 29. | Bearer | 3 | 1 | 2 |
| 30. | Boatman | 102 | 25 | 77 |
| 31. | Boiler Driver | 1 | 0 | 1 |
| 32. | Boiler Fireman | 3 | 0 | 3 |
| 33. | Bungalow Chowkidar | 94 | 66 | 28 |



| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|--------------------------|-------------------|-------------------|-----------|
| 34. | Bengali Translator | 1 | 1 | 0 |
| 35. | Cashaub | 1 | 0 | 1 |
| 36. | Chowkidar | 2 | 1 | 1 |
| 37. | Cleaner/Truck Cleaner | 27 | 16 | 11 |
| 38. | Cook | 4 | 0 | 4 |
| 39. | Cook-cum-Bearer | 2 | 1 | 1 |
| 40. | Crane Operator | 3 | 2 | 1 |
| 41. | Cross-cut-Operator | 6 | 1 | 5 |
| 42. | C.T.Mobile Medical Unit | 1 | 0 | 1 |
| 43. | Compounder | 1 | 1 | 0 |
| 44. | Dakwalla | 104 | 47 | 57 |
| 45. | Darwan | 34 | 23 | 11 |
| 46. | Draftsman/Head Draftsman | 35 | 16 | 19 |
| 47. | Driver-cum-Mechanic | 3 | 0 | 3 |
| 48. | Duftary | 13 | 6 | 7 |
| 49. | Duplicating Operator | 1 | 1 | 0 |
| 50. | Electrician | 1 | 1 | 0 |
| 51. | Engine Driver | 9 | 4 | 5 |
| 52. | Electric Workman | 4 | 1 | 3 |
| 53. | ECG Technician | 1 | 0 | 1 |
| 54. | Fitter | 1 | 0 | 1 |
| 55. | Forest Watcher | 13 | 1 | 12 |
| 56. | Forest Worker | 17 | 6 | 11 |
| 57. | GDA (Medical Unit) | 2 | 0 | 2 |
| 58. | Gate Operator/ H.G.O. | 5 | 1 | 4 |
| 59. | Grass Cutter | 22 | 2 | 20 |
| 60. | Game Watcher | 2 | 1 | 1 |
| 61. | Game Guard | 4 | 0 | 4 |
| 62. | Installation Guard | 10 | 0 | 10 |
| 63. | Kiln Supervisor | 1 | 0 | 1 |
| 64. | Laskar | 17 | 6 | 11 |
| 65. | Lathe man | 1 | 0 | 1 |
| 66. | Laboratory Assistant | 3 | 0 | 3 |
| 67. | Laboratory Attendant | 1 | 1 | 0 |
| 68. | Mahut | 23 | 3 | 20 |
| 69. | Majhi | 44 | 12 | 32 |



| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|-----------------------------|-------------------|-------------------|-----------|
| 70 | Mali | 193 | 112 | 81 |
| 71 | Medical Officer | 2 | 0 | 2 |
| 72 | Mosalchi | 1 | 0 | 1 |
| 73 | Muharrir Grade-I, Grade-II | 2 | 1 | 1 |
| 74 | Museum Darwan | 1 | 0 | 1 |
| 75 | Night Guard | 11 | 6 | 5 |
| 76 | Night Watchman | 5 | 1 | 4 |
| 77 | Nurse | 2 | 0 | 2 |
| 78 | Oil Man – greaser | 9 | 3 | 6 |
| 79 | Orderly | 534 | 437 | 97 |
| 80 | Peon | 102 | 70 | 32 |
| 81 | Office Supdt. | 1 | 1 | 0 |
| 82 | Pharmacist | 2 | 0 | 2 |
| 83 | Power Saw Operator | 5 | 0 | 5 |
| 84 | Pump Driver | 1 | 0 | 1 |
| 85 | Road Roller Driver | 3 | 0 | 3 |
| 86 | Record Supplier | 2 | 2 | 0 |
| 87 | Renepont Operator | 2 | 0 | 2 |
| 88 | Road Roller Mate | 3 | 0 | 3 |
| 89 | Research Officer | 1 | 0 | 1 |
| 90 | Ropeway Motor Driver | 7 | 0 | 7 |
| 91 | Road Khalasi | 3 | 0 | 3 |
| 92 | Saw Doctor | 1 | 0 | 1 |
| 93 | Serang | 7 | 3 | 4 |
| 94 | Skilled Mazdoor | 10 | 0 | 10 |
| 95 | Station Helper | 5 | 0 | 5 |
| 96 | Personal Assistant | 48 | 22 | 26 |
| 97 | Sub-Station Operator | 2 | 1 | 1 |
| 98 | Karmabandhu (Sweeper) | 52 | 22 | 30 |
| 99 | Sukhani | 5 | 1 | 4 |
| 100 | Tractor Driver | 1 | 0 | 1 |
| 101 | Tractor Mate | 5 | 0 | 5 |
| 102 | Taxidermist | 1 | 0 | 1 |
| 103 | Ticket Seller | 1 | 0 | 1 |
| 104 | Technical Asstt. | 1 | 1 | 0 |
| 105 | Tractor Mount Roller Driver | 1 | 1 | 0 |



| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|-----------------------|-------------------|-------------------|-----------|
| 106 | Unskilled Mazdoor | 46 | 1 | 45 |
| 107 | Veterinary Officer | 1 | 0 | 1 |
| 108 | Watcher | 1 | 1 | 0 |
| 109 | Wildlife Guard | 1 | 1 | 0 |
| 110 | X-Ray Assistant | 1 | 1 | 0 |
| 111 | Karmasathi (Zamadar } | 2 | 0 | 2 |

4.3 PARKS & GARDENS WING

| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|-----------------------------|-------------------|-------------------|-----------|
| 1 | Garden Supervisor | 22 | 13 | 9 |
| 2 | Head Uddyan Rakshi | 31 | 11 | 20 |
| 3 | Horticulture Officer | 5 | 0 | 5 |
| 4 | Senior Horticulture Officer | 2 | 0 | 2 |
| 5 | Senior Mali | 70 | 37 | 33 |
| 6 | Supdt. Horticulture officer | 1 | 1 | 0 |
| 7 | Uddyan Rakshi | 126 | 92 | 34 |
| 8 | Uddyan Shramik | 284 | 160 | 124 |

4.3.1 Lloyd Botanic Garden

| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|-----------------------|-------------------|-------------------|-----------|
| 1 | Black smith | 1 | 0 | 1 |
| 2 | Carpenter | 1 | 1 | 0 |
| 3 | CT | 1 | 0 | 1 |
| 4 | Darwan | 6 | 2 | 4 |
| 5 | Head Mali | 1 | 0 | 1 |
| 6 | Herbarium Cleaner | 4 | 0 | 4 |
| 7 | Horticulture Officer | 1 | 0 | 1 |
| 8 | Junior Mali | 1 | 0 | 1 |
| 9 | Lebel Writer | 1 | 0 | 1 |
| 10 | Man Mazdoor | 11 | 3 | 8 |
| 11 | Night Guard/Chowkidar | 1 | 0 | 1 |
| 12 | Orchid Supervisor | 1 | 0 | 1 |
| 13 | Orderly | 1 | 1 | 0 |
| 14 | Plant Collector | 1 | 0 | 1 |
| 15 | Peon | 1 | 1 | 0 |



| Sl. No | Name of Posts | Sanction Strength | Existing Strength | Vacancies |
|--------|-----------------------|-------------------|-------------------|-----------|
| 16 | Sardar | 1 | 0 | 1 |
| 17 | Senior Mali | 1 | 1 | 0 |
| 18 | Store Keeper | 1 | 0 | 1 |
| 19 | Karmabandhu (Sweeper) | 2 | 0 | 2 |
| 20 | UDC | 1 | 1 | 0 |
| 21 | Women Mazdoor | 25 | 0 | 25 |

4.4 SUPERNUMERARY POSTS

| | |
|--------------|------|
| Bana Majdoor | 103 |
| Bana Shramik | 1559 |

4.5 ADMINISTRATIVE UNITS UNDER FOREST DIRECTORATE

| | Circle headed by CCF | Circle headed by CF | Division | Range | Beat |
|-------------------|----------------------|---------------------|-----------|------------|-------------|
| Territorial | 7 | 2 | 29 | 194 | 600 |
| Wildlife | 3 | 3 | 6 | 52 | 139 |
| Soil Conservation | 1 | 1 | 2 | 13 | 24 |
| Functional | 10 | 6 | 21 | 238 | 368 |
| Total | 21 | 12 | 58 | 497 | 1131 |

4.6 RECRUITMENT

4.6.1 Direct Recruitment

Direct recruitment of EXECUTIVE PERSONNEL

- i. **Appointment of Forest Ranger:** There has been direct recruitment of Executive personnel viz. Forest Ranger. Selection made by the Public Service Commission, West Bengal for the post of FR is 168. Being selected on the basis of results of West Bengal Forest Service & West Bengal Sub-ordinate Forest Service Examination, 2018, 63 candidates have been offered appointment to the post of Forest Ranger during the financial year 2020-21, out of which 57 candidates joined to the said post during the period.
- ii. **Appointment on Compassionate Ground:** During the period April, 2020 to March, 2021, no eligibility test could be conducted as no approved list of compassionate ground job was received during the year from the Department of Forests.

Special eligibility tests were held during 2019-20 time to time to judge the suitability of the candidates for appointment to different Group 'C' posts. Depending upon their educational qualification and performance in the special eligibility test having requisite physical standards, the candidates have been offered appointment in different Group C/D posts during 2020-21 as shown below:

DETAILS OF SELECTION FOR APPOINTMENT IN GROUP-C ON COMPASSIONATE GROUND (2020-21)

| SI No | Designation | No. of candidate selected for appointment (18 Nos.) |
|-------|------------------------|---|
| 1. | Deputy Ranger/Forester | 13 |
| 2. | Forest Guard | 3 |
| 3. | Lower Division Clerk | 2 |



DETAILS OF SELECTION FOR APPOINTMENT IN GROUP-D ON COMPASSIONATE GROUND (2020-21)

| Sl No | Designation | No. of candidates offered appointment (6 Nos.) |
|-------|-------------|--|
| 1. | Orderly | 2 |
| 2. | Mali | 3 |
| 3. | Darwan | 1 |

4.6.2 Promotion

In this period 2020-21, 196 promotion cases have been considered to the following category of staff as detailed below:

| Sl. No. | Designation | Promoted to | Total |
|---------|-------------|-------------|-------|
| 1. | DR/Fr. | FR | 32 |
| 2. | FG, HFG | DR/Fr. | 01 |
| 3. | FG | HFG | 23 |

| Sl. No. | Designation | Promoted to | Total |
|---------|-------------|--|----------|
| 4. | Gr.-D | FG | 105 |
| 5. | Gr.-D | LDC | 0 |
| 6. | LDC | UDC | 15 |
| 7. | UDC | Accountant (Regional) Accountant (Circle) | 02 08 |
| 9. | Accountant | HC (Reg) HC (Dir) | 07 03 |

4.7 TRAINING OF STAFF

During the year following category of staff sent for compulsory departmental training in different Institution/ Training centre:

| Sl. No. | Designation | Number |
|---------|-------------|--------|
| 1. | FR | 1 |

4.8 DEPLOYMENT OF WBFS CADRE

4.8.1 Deployment of WBFS (DFO/DCF)

| Sl No. | Name of Division | Sl No. | Name of Division |
|--------|--|--------|---|
| 1 | DFO Working Plan I Division | 13 | DCF, Personnel |
| 2 | DFO Working Plan II Division | 14 | DCF, Legal |
| 3 | DFO Kangsabati (South) Division | 15 | DFO, Forest Utilisation Division |
| 4 | DFO, Extension Forestry Division Purulia | 16 | Director, SFTI, Hijli |
| 5 | DFO, Rupnarayan Division | 17 | DFO, Raigunj Division |
| 6 | DFO, Kharagpur Division | 18 | DFO, Siliguri SF Division |
| 7 | DFO, Purba Midnapur Division | 19 | DFO, Non Timber Forest Produce Division |
| 8 | DFO, Panchet Division | 20 | DFO, Jalpaiguri SF Division |
| 9 | DFO, Durgapur Division | 21 | DFO, Parks and Gardens (North) Division |
| 10 | DFO, 24 Parganas North Division | 22 | DFO, Jalpaiguri SC Division |
| 11 | DFO, Howrah Division | 23 | DFO, Coochbehar Division |
| 12 | DCF, Publicity Division | | |



4.8.2 Deployment of WBFS (ADF0)

(Vide G.O. No. 144-For/G/4E-8/13 dated: Kolkata 24/01/2019)

| Sl. No. | Name of the Unit | Sanctioned Strength | Sl. No. | Name of the Unit | Sanctioned Strength |
|---------|------------------------------|---------------------|---------|--------------------------------|---------------------|
| 1. | CCF, South- West Circle | 1 | 33 | Jaldapara Wildlife Division | 2 |
| 2 | Purulia Division | 2 | 34 | BTR East Division | 2 |
| 3 | Kangsabati North Division | 2 | 35 | BTR West Division | 2 |
| 4 | Kangsabati South Division | 2 | 36 | Wildlife HQ Division | 2 |
| 5 | Extension Forestry Division | 1 | 37 | STR Division | 2 |
| 6 | CCF, South-East Circle | 1 | 38 | 24 Parganas North Division | 1 |
| 7 | Birbhum Division | 1 | 39 | 24 Parganas South Division | 2 |
| 8 | Durgapur Division | 1 | 40 | Nadia-Murshidabad Division | 2 |
| 9 | Burdwan Division | 1 | 41 | Howrah Division | 1 |
| 10 | CCF, Central Circle | 1 | 42 | URF Division | 1 |
| 11 | Bankura North Division | 2 | 43. | Parks & Garden, North Division | 1 |
| 12 | Bankura South Division | 2 | 44. | Siliguri SF Division | 1 |
| 13 | Panchet Division | 2 | 45 | Raiganj SF Division | 1 |
| 14 | CCF, Western Circle | 1 | 46 | Jalpaiguri SF Division | 1 |
| 15 | Jhargram Division | 2 | 47 | Malda Division | 1 |
| 16 | Medinipur Division | 2 | 48 | Jalpaiguri SC Division | 1 |
| 17 | Purba Medinipur Division | 1 | 49 | Kurseong SC Division | 1 |
| 18 | Kharagpur Division | 1 | 50 | Silviculture Hills Division | 1 |
| 19 | Rupnarayan Division | 1 | 51 | Silviculture North Division | 1 |
| 20 | ADDL PCCF, North | 1 | 52 | Silviculture South Division | 1 |
| 21 | CCF, Hill Circle | 1 | 53 | WBF School | 1 |
| 22 | Darjeeling Division | 2 | 54 | FTC, Rajabhatkhawa | 1 |
| 23 | Kurseong Division | 2 | 55 | SFTI, Hijli | 2 |
| 24 | Kalimpong Division | 2 | 56 | Working Plan North Division | 1 |
| 25 | CCF, Northern Circle | 1 | 57 | Working Plan South-I Division | 1 |
| 26 | Jalpaiguri Division | 2 | 58 | Working Plan South-II Division | 1 |
| 27 | Baikunthapur Division | 2 | 59 | Monitoring South Division | 1 |
| 28 | Coochbehar Division | 1 | 60 | Monitoring North Division | 1 |
| 29 | NTFP Division | 1 | 61 | Publicity Division | 1 |
| 30 | CCF, Wildlife North | 1 | 62 | Forest Utilization Division | 1 |
| 31 | Darjeeling Wildlife Division | 2 | 63 | PM Cell | 1 |
| 32 | Gorumara Wildlife Division | 2 | 64 | DCF, Administration | 1 |



JOINT FOREST MANAGEMENT COMMITTEE

CHAPTER - 5

5.1 JFMCS IN WEST BENGAL

5.1.1 JFMCs in outside of Protected Areas

West Bengal has a total of 4324 numbers of JFMCs (erstwhile FPCs) with total membership of 537973 with approximate ratio of male: female membership (first member) at 8:1 which have been reported to be registered in West Bengal covering 570234.93 ha forest area being protected by them. The SC & ST constitute 55.57% of members in the JFMCs (erstwhile FPCs).

(As on 31.03.2021)

| Division | No of JFMC | Area Protected | Members | | | | | |
|------------------|------------|----------------|---------|--------|-------|-------|-------|--------|
| | | (in Ha) | Male | Female | Total | SC | ST | Others |
| Darjeeling | 80 | 15239.108 | 4513 | 532 | 5045 | 220 | 2217 | 2608 |
| Kurseong | 46 | 13094.61 | 1084 | 1624 | 2708 | 440 | 1052 | 1216 |
| Kalimpong | 64 | 27104.86 | 3698 | 205 | 3903 | 205 | 1038 | 2660 |
| Darjeeling WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Baikunthapur | 66 | 14023.78 | 6192 | 131 | 6323 | 4529 | 790 | 1004 |
| Jalpaiguri | 61 | 20722 | 10207 | 863 | 11070 | 4760 | 3336 | 2974 |
| BTR East | 17 | 9331.09 | 3340 | 103 | 3443 | 1591 | 1392 | 460 |
| BTR West | 27 | 14786 | 4320 | 665 | 4985 | 825 | 2876 | 1284 |
| Coochbehar | 24 | 4070.90 | 2962 | 209 | 3171 | 1458 | 517 | 1196 |
| Jaldapara WL | 31 | 6499.338 | 8255 | 1144 | 9399 | 1692 | 5004 | 2703 |
| Gorumara WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Raiganj | 21 | 1162.60 | 1727 | 74 | 1801 | 864 | 412 | 525 |
| Malda | 6 | 456.219 | 477 | 106 | 583 | 236 | 283 | 64 |
| Bankura North | 543 | 43567.94 | 50584 | 2094 | 52678 | 19947 | 7917 | 24814 |
| Bankura South | 646 | 45367.96 | 56551 | 4822 | 61373 | 14892 | 18868 | 27613 |
| Panchet | 232 | 27905.09 | 27811 | 1594 | 29405 | 11160 | 4758 | 13487 |
| Kangsabati North | 246 | 17501.96 | 24019 | 885 | 24904 | 5748 | 8100 | 11056 |
| Kangsabati South | 305 | 25446 | 29561 | 569 | 30130 | 4293 | 10889 | 14948 |
| Purulia | 230 | 44426.9 | 42005 | 22411 | 64416 | 8071 | 20691 | 35654 |
| Burdwan | 70 | 17641.5 | 17747 | 2645 | 20392 | 8813 | 4954 | 6625 |
| Durgapur | 23 | 2376.129 | 3707 | 3705 | 7412 | 2460 | 1322 | 3630 |
| Midnapur | 364 | 45956.45 | 48038 | 2801 | 50839 | 10131 | 9186 | 31522 |



| Division | No of JMFC | Area Protected | Members | | | | | |
|-----------------|-------------|------------------|---------------|--------------|---------------|---------------|---------------|---------------|
| | | (in Ha) | Male | Female | Total | SC | ST | Others |
| Jhargram | 474 | 62109.444 | 38254 | 2449 | 40703 | 9135 | 14906 | 16662 |
| Rupnarayan | 222 | 27079.17 | 27392 | 1185 | 28577 | 7464 | 7875 | 13238 |
| Kharagpur | 254 | 28185.52 | 29025 | 1586 | 30611 | 6547 | 8751 | 15313 |
| Purba Midnapur | 19 | 1887.48 | 4760 | 1097 | 5857 | 1256 | 50 | 4551 |
| Birbhum | 198 | 10608.23 | 14574 | 331 | 14905 | 4790 | 5212 | 4903 |
| Nadia Msd | 11 | 916.332 | 989 | 44 | 1033 | 253 | 243 | 537 |
| 24 Parganas (S) | 40 | 42534 | 10801 | 10718 | 21519 | 11830 | 514 | 9175 |
| STR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas (N) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Howrah | 4 | 234.32 | 788 | 0 | 788 | 332 | 108 | 348 |
| TOTAL | 4324 | 570234.93 | 473381 | 64592 | 537973 | 143942 | 143261 | 250770 |

5.1.2 JFMCs in the Protected Areas in West Bengal

A total of 146 numbers of EDCs (now re-designated as JFMC) having total membership of 47665 with approximate ratio of male: female membership at 5:2 have been reported to be registered in West Bengal covering 85797.31 ha forest within Protected Areas being protected by them. The SC & ST constitute 58.23% of members in the EDCs. With the promulgation of the latest JFMC resolutions, the erstwhile EDCs are called JFMCs vide no. 40-FOR dated 31.01.2017.

(As on 31.03.2021)

| Name of Forest Division | Name of Protected Area | No. of EDC | Area Protected (in Ha) | No. of Members | | | SC | ST | Others |
|-------------------------|-----------------------------|------------|------------------------|----------------|--------|-------|------|------|--------|
| | | | | Male | Female | Total | | | |
| Darjeeling Wildlife | Mahananda WLS | 15 | 12,406.55 | 2652 | 2188 | 4840 | 1304 | 1022 | 2514 |
| | Senchal WLS | 15 | 4114.81 | 1586 | 1211 | 2797 | 100 | 1455 | 1242 |
| | Singalila N.P. | 1 | 350 | 63 | 72 | 135 | 0 | 59 | 76 |
| Gorumara Wildlife | Neora Valley N.P. | 6 | 5020.01 | 1391 | 1198 | 2589 | 64 | 952 | 1573 |
| | Gorumara N.P. | 6 | 3695.62 | 1293 | 149 | 1442 | 482 | 457 | 503 |
| | Chapramari Beat Forest Area | 1 | 960.310 | 47 | 2 | 49 | 4 | 8 | 37 |
| | Khunia Beat Forest area | 2 | 1443.9 | 341 | 5 | 346 | 7 | 154 | 185 |
| | Murti Beat Forest area | 3 | 1613.04 | 460 | 90 | 550 | 115 | 189 | 246 |
| Buxa Tiger Reserve (E) | Buxa Tiger Reserve | 14 | 23,534.97 | 1454 | 173 | 1627 | 238 | 612 | 777 |
| Buxa Tiger Reserve (W) | | 7 | 10809.17 | 263 | 181 | 444 | 126 | 318 | 0 |



| Name of Forest Division | Name of Protected Area | No. of EDC | Area Protected (in Ha) | No. of Members | | | SC | ST | Others |
|-------------------------|-------------------------|------------|------------------------|----------------|--------------|--------------|--------------|--------------|--------------|
| | | | | Male | Female | Total | | | |
| Jaldapara Wildlife | Jaldapara WLS | 40 | 9079.251 | 9757 | 1398 | 11155 | 5173 | 3306 | 2676 |
| Raiganj | Kulik WLS | 3 | 130 | 193 | 21 | 214 | 172 | 30 | 12 |
| Birbhum | Ballavpur WLS | 4 | 226.28 | 300 | 10 | 310 | 9 | 196 | 105 |
| Nadia –Murshidabad | Bethuadahari WLS | 1 | 66.67 | 96 | 6 | 102 | 55 | 29 | 18 |
| Sunderban Tiger Reserve | Sundarban Tiger Reserve | 26 | 35779 | 14213 | 6495 | 20708 | 9079 | 1719 | 9910 |
| 24 Parganas North | Bibhuti Bhushan WLS | 1 | 93.70 | 35 | 2 | 37 | 24 | 5 | 8 |
| Purba Midnapur | Arakbari EDC | 1 | 9 | 192 | 128 | 320 | 290 | 0 | 30 |
| TOTAL | | 146 | 85797.31 | 34336 | 13329 | 47665 | 17242 | 10511 | 19912 |

5.2 STATUS OF SELF HELP GROUP AS ON 31/03/2021 (EXCLUDING WOMEN SHG)

It is reported that there are 3029 SHGs in various districts in West Bengal of which 2098 are exclusively women SHGs.

| District | Division | No of SHG | Members | | | No of JFMC/ EDC in SHG | Corpus Fund Generated (in INR) |
|--------------------------|------------------|-----------|---------|--------|-------|------------------------|--------------------------------|
| | | | Male | Female | Total | | |
| Darjeeling | Darjeeling | 0 | 0 | 0 | 0 | 0 | 0 |
| Darjeeling | Kurseong | 0 | 0 | 0 | 0 | 0 | 0 |
| Kalimpong | Kalimpong | 0 | 0 | 0 | 0 | 0 | 0 |
| Darjeeling | Darjeeling WL | 34 | 0 | 380 | 380 | 11 | 3,30,344 |
| Jalpaiguri | Baikunthapur | 63 | 79 | 604 | 683 | 49 | 7,21,000 |
| Jalpaiguri | Jalpaiguri | 0 | 0 | 0 | 0 | 0 | 0 |
| Jalpaiguri | Gorumara WL | 8 | 0 | 48 | 48 | 5 | 3,83,057.00 |
| Alipurduar | BTR East | 0 | 0 | 0 | 0 | 0 | 0 |
| Alipurduar | BTR West | 229 | 0 | 0 | 0 | 0 | 0 |
| Coochbehar | Cooch Behar | 79 | 0 | 0 | 273 | 24 | 0 |
| Coochbehar | Jaldapara WL | 0 | 0 | 0 | 0 | 0 | 0 |
| Uttar & Dakshin Dinajpur | Raiganj | 0 | 0 | 0 | 0 | 0 | 0 |
| Malda | Malda | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura | Bankura North | 27 | 177 | 122 | 299 | 09 | 0 |
| Bankura | Bankura South | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura | Panchet | 0 | 0 | 0 | 0 | 0 | 0 |
| Purulia | Kangsabati North | 0 | 0 | 0 | 0 | 0 | 0 |
| Purulia | Kangsabati South | 0 | 0 | 0 | 0 | 0 | 0 |



| District | Division | No of SHG | Members | | | No of JFMC/ EDC in SHG | Corpus Fund Generated (in INR) |
|----------------------|-----------------|------------|-------------|-------------|-------------|---------------------------|-----------------------------------|
| | | | Male | Female | Total | | |
| Purulia | Purulia | 0 | 0 | 0 | 0 | 0 | 0 |
| Burdwan | Burdwan | 0 | 0 | 0 | 0 | 0 | 0 |
| Burdwan | Durgapur | 0 | 0 | 0 | 0 | 0 | 0 |
| Paschim Medinipur | Midnapur | 155 | 22 | 1385 | 1407 | 59 | 91,04,547 |
| Paschim Medinipur | Jhargram | 0 | 0 | 0 | 0 | 0 | 0 |
| Paschim Medinipur | Rupnarayan | 39 | 10 | 596 | 606 | 30 | 24,04,000 |
| Paschim Medinipur | Kharagpur | 0 | 0 | 0 | 0 | 0 | 0 |
| Purba Medinipur | Purba Midnapur | 0 | 0 | 0 | 0 | 0 | 0 |
| Birbhum | Birbhum | 91 | 574 | 510 | 1084 | 0 | 0 |
| Nadia & MSD | Nadia Msd | 1 | 11 | 1 | 12 | 0 | 0 |
| 24 Parganas (S) | 24 Parganas(S) | 205 | 1538 | 2562 | 4100 | 30 | 0 |
| Howrah | Howrah | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas (S) | STR | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas (N) | 24 Parganas (N) | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | | 931 | 2411 | 6208 | 8892 | 217 | 1,29,42,948.00 |

5.3 STATUS OF SELF HELP GROUP AS ON 31/03/2021 (EXCLUSIVE WOMEN SHG)

| District | Division | No of SHG | Members | No of JFMC/ EDC in SHG | Corpus Fund Generated (in INR) |
|-----------------------------|---------------|-----------|---------|---------------------------|--------------------------------------|
| | | | Female | | |
| Darjeeling | Darjeeling | 54 | 484 | 23 | 17,12,341.00 |
| Darjeeling | Kurseong | 20 | 207 | 16 | 0.00 |
| Kalimpong | Kalimpong | 0 | 0 | 0 | 0.00 |
| Darjeeling | Darjeeling WL | 34 | 380 | 11 | 330,344 |
| Jalpaiguri | Baikunthapur | 56 | 604 | 49 | 0.00 |
| Jalpaiguri | Jalpaiguri | 400 | 4000 | 61 | 0.00 |
| Jalpaiguri | Gorumara WL | 8 | 48 | 5 | 3,83,057.00 |
| Alipurduar | BTR East | 97 | 0 | 0 | 0 |
| Alipurduar | BTR West | 0 | 0 | 0 | 0 |
| Coochbehar | Coochbehar | 0 | 0 | 0 | 0 |
| Coochbehar | Jaldapara WL | 39 | 326 | 23 | 0 |
| Uttar & Dakshin Dinajpur | Raiganj | 0 | 0 | 0 | 0 |



| District | Division | No of SHG | Members | No of JFMC/ EDC in SHG | Corpus Fund Generated (in INR) |
|-------------------|------------------|-------------|--------------|---------------------------|--------------------------------------|
| | | | Female | | |
| Malda | Malda | 0 | 0 | 0 | 0 |
| Bankura | Bankura North | 174 | 1796 | 53 | 0 |
| Bankura | Bankura South | 102 | 1110 | 51 | 0 |
| Bankura | Panchet | 100 | 1109 | 4 | 2,46,000.00 |
| Purulia | Kangsabati North | 64 | 673 | 30 | 37,44,542 |
| Purulia | Kangsabati South | 66 | 660 | 33 | 0 |
| Purulia | Purulia | 78 | 778 | 35 | 43,68,346 |
| Burdwan | Burdwan | 62 | 505 | 31 | 0 |
| Burdwan | Durgapur | 19 | 164 | 10 | 8,17,056 |
| Paschim Medinipur | Midnapur | 155 | 1385 | 59 | 91,04,547 |
| Paschim Medinipur | Jhargram | 0 | 0 | 0 | 0 |
| Paschim Medinipur | Rupnarayan | 43 | 432 | 21 | 0 |
| Paschim Medinipur | Kharagpur | 45 | 460 | 31 | 26,30,889.00 |
| Purba Medinipur | Purba Midnapur | 0 | 0 | 0 | 0 |
| Birbhum | Birbhum | 217 | 2186 | 217 | 0 |
| Nadia & MSD | Nadia Msd | 0 | 0 | 0 | 0 |
| 24 Parganas (S) | 24 Parganas(S) | 122 | 2440 | 13 | 0 |
| 24 Parganas (S) | STR | 143 | 1430 | 26 | 0 |
| 24 Parganas (N) | 24 Parganas (N) | 0 | 0 | 0 | 0 |
| Howrah | Howrah | 0 | 0 | 0 | 0 |
| TOTAL | | 2098 | 21177 | 802 | 2,33,37,122.00 |

5.4 STATUS OF FDA AS ON 31/03/2021

A total of 1319 numbers of JFMCs in the state are part of FDA with total membership of 178833 with approximate ratio of male: female membership at 10:1 have been reported to be registered in West Bengal. The SC & ST constitute 51.94% of members in the FDA. The status of FDAs as on 31.03.2021 has been tabulated below:

| Name of FDA | No of JFMC/EDC in FDA | No of JFMC/EDC members in FDA | | | | | | Fund utilisation in NAP / other Schemes (in ₹ Lakhs) |
|---------------|-----------------------------|-------------------------------|--------|-------|------|------|--------|---|
| | | Male | Female | Total | SC | ST | Others | |
| Darjeeling | 80 | 4513 | 532 | 5045 | 220 | 2217 | 2608 | 0.00 |
| Kurseong | 46 | 1084 | 1624 | 2708 | 440 | 1052 | 1216 | 0.00 |
| Kalimpong | 64 | 3698 | 205 | 3903 | 205 | 1038 | 2660 | 0.00 |
| Darjeeling WL | 31 | 4302 | 3455 | 7757 | 1394 | 2536 | 3827 | 0.00 |
| Baikunthapur | 0 | 6192 | 131 | 6323 | 4529 | 790 | 1004 | 0.00 |
| Jalpaiguri | 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |



| Name of FDA | No of JFMC/EDC in FDA | No of JFMC/EDC members in FDA | | | | | | Fund utilisation in NAP / other Schemes (in ₹ Lakhs) |
|------------------|-----------------------|-------------------------------|--------------|---------------|--------------|--------------|--------------|--|
| | | Male | Female | Total | SC | ST | Others | |
| Gorumara WL | 18 | 3524 | 1452 | 4976 | 672 | 1758 | 2546 | 0.00 |
| BTR East | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| BTR West | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Cooch Behar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Jaldapara WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Raiganj | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Malda | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Bankura North | 29 | 810 | 19 | 829 | 266 | 38 | 525 | 0.00 |
| Bankura South | 85 | 8606 | 330 | 8936 | 3178 | 2103 | 3655 | 0.00 |
| Panchet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Kangsabati North | 57 | 5940 | 160 | 6100 | 789 | 2563 | 2748 | 0.00 |
| Kangsabati South | 46 | 19211 | 396 | 19607 | 3203 | 7562 | 8842 | 0.00 |
| Purulia | 49 | 5961 | 356 | 6317 | 2107 | 1554 | 2656 | 0.00 |
| Burdwan | 57 | 13937 | 2312 | 16249 | 6764 | 4329 | 5156 | 0.00 |
| Durgapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Midnapur | 364 | 48038 | 2801 | 50839 | 10131 | 9186 | 31522 | 0.00 |
| Jhargram | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Rupnarayan | 45 | 5305 | 320 | 5625 | 2075 | 2495 | 1055 | 0.00 |
| Kharagpur | 254 | 29025 | 1586 | 30611 | 7028 | 8925 | 14658 | 0.00 |
| Purba Midnapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Birbhum | 33 | 2787 | 221 | 3008 | 805 | 935 | 1268 | 0.00 |
| Nadia Msd | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| 24 Parganas (S) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| STR | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| 24 Parganas (N) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| Howrah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00 |
| TOTAL | 1319 | 162933 | 15900 | 178833 | 43806 | 49081 | 85946 | 0.0 |

“By discovering nature, you discover yourself.”

— Maxime Lagacé



MISCELLANEOUS INFORMATION

CHAPTER - 6

6.1 DISTRICT AND DIVISION WISE INFORMATION OF SAW MILLS AND OTHER WOOD BASED INDUSTRIES OF WEST BENGAL AS ON 31.03.2021.

| Sl. No. | District | Division | No of licensed units (General Category) | No. of licensed units (Secondary non-Pasting Category) | No. of Licensed units (OGL Category) |
|---------|-----------------------------|---------------------|---|--|--------------------------------------|
| 1 | Erstwhile Paschim Medinipur | Medinipur | 46 | 58 | 0 |
| 2 | | Jhargram | 21 | 7 | 0 |
| 3 | | Rupnarayan | 16 | 26 | 0 |
| 4 | | Kharagpur | 137 | 191 | 0 |
| 5 | Purba Medinipur | Purba Medinipur | 141 | 163 | 3 |
| 6 | Bankura | Bankura (North) | 39 | 100 | 0 |
| 7 | | Bankura (South) | 35 | 95 | 0 |
| 8 | | Panchet | 21 | 27 | 0 |
| 9 | Purulia | Purulia | 13 | 48 | 0 |
| 10 | | Kangsabati (North) | 42 | 76 | 0 |
| 11 | | Kangsabati (South) | 9 | 5 | 0 |
| 12. | Birbhum | Birbhum | 77 | 160 | 0 |
| 13. | Purba Bardhaman | Burdwan | 134 | 157 | 0 |
| 14. | Paschim Bardhaman | Durgapur | 86 | 73 | 0 |
| 15. | Howrah | Howrah | 172 | 275 | 71 |
| 16. | Hooghly | | | | 0 |
| 17. | North 24 Parganas | 24 Parganas (North) | 164 | 553 | 11 |
| 18. | South 24 Parganas | 24 Parganas (South) | 116 | 564 | 13 |
| 19. | | Sunderban TR | 0 | 0 | 0 |
| 20 | Nadia | Nadia-Murshidabad | 168 | 193 | 1 |
| 21 | Murshidabad | | | | 0 |
| 22 | Kolkata | Forest Utilization | 172 | 29 | 1 |
| 23. | Malda | Malda | 139 | 294 | 0 |



| Sl. No. | District | Division | No of licensed units (General Category) | No. of licensed units (Secondary non-Pasting Category) | No. of Licensed units (OGL Category) |
|--------------------|--------------------------------|-----------------|---|--|--------------------------------------|
| 24. | Uttar Dinajpur | Raiganj | 100 | 188 | 0 |
| 25. | Dakshin Dinajpur | | | | 0 |
| 26. | Erstwhile Darjeeling | Darjeeling | 3 | 8 | 0 |
| 27. | | Kurseong | 9 | 42 | 0 |
| 28. | | Kalimpong | 3 | 0 | 0 |
| 29. | | Baikunthapur(P) | | | 0 |
| 30. | Erstwhile Jalpaiguri | Baikunthapur(P) | 87 | 35 | 0 |
| 31. | | Jalpaiguri | 83 | 101 | 0 |
| 32. | | Jaldapara WL | 19 | 62 | 0 |
| 33, | | Buxa TR (East) | 14 | 62 | 0 |
| 34, | | Buxa TR (West) | 13 | 49 | 0 |
| 35 | Coochbehar | Coochbehar | 129 | 386 | 0 |
| Grand Total | | | 2208 | 4027 | 100 |

6.2 PARKS MAINTAINED BY PARKS & GARDENS (NORTH) DIVISION

| District | Name of the Park/ Garden | Range | Area (in Acres) |
|-------------------|------------------------------|------------|-----------------|
| Coochbehar | 1. Narendra Narayan Park | Coochbehar | 13.62 |
| | 2. Keshab Ashram | Coochbehar | 2.17 |
| | 3. Hitendra Narayan Park | Coochbehar | 0.32 |
| | 4. Station Garden | Coochbehar | 0.79 |
| | 5. Shahid bag (Mukta Mancha) | Coochbehar | 0.73 |
| | 6. Haldibari Park | Jalpaiguri | 2.50 |
| Alipurduar | 7. Alipurduar Park | Coochbehar | 4.45 |
| | 8. Birpara Park | Jalpaiguri | 3.50 |
| | 9. Falakata Park | Jalpaiguri | 1.23 |
| Jalpaiguri | 10. TeestaUdyan | Jalpaiguri | 2.00 |
| | 11. Karala Beautification | Jalpaiguri | 2.10 |
| | 12. Dhupguri Park | Jalpaiguri | 2.53 |
| | 13. Banarhat Park | Jalpaiguri | 3.00 |
| | 14. Maynaguri Park | Jalpaiguri | 2.00 |
| | 15. Lataguri Park | Jalpaiguri | 1.00 |
| | 16. Kranti Park | Jalpaiguri | 2.00 |
| | 17. Nagrakata Park | Siliguri | 3.75 |
| | 18. Oodlabari Park | Siliguri | 2.00 |
| | 19. Mal Park | Siliguri | 6.10 |



| District | Name of the Park/ Garden | Range | Area (in Acres) |
|-------------------------|--------------------------|-----------|-----------------|
| Darjeeling | 20. Siliguri Park | Siliguri | 1.19 |
| Uttar Dinajpur | 21. Islampur Park | Siliguri | 2.03 |
| Dakshin Dinajpur | 22. Balurghat Park | Balurghat | 10.47 |
| TOTAL | | | 69.48 |

6.3 LENGTH OF FOREST ROAD (IN KM) AS ON 31.03.2021 THE LENGTH OF FOREST ROAD AS ON 31.03.2021 WAS 6996.4855 KM.

| District | Name of Division | Water Bound Macadam (Km.) | Block Top Motorable (Km.) | Cement concrete (Km.) | Earthen (Km.) | Non Motorable Foot Tracks (Km.) | Other Motorable Road (Km.) | Total (km.) |
|------------------------|------------------|---------------------------|---------------------------|-----------------------|---------------|---------------------------------|----------------------------|-----------------|
| Darjeeling | Darjeeling | 0 | 0.31 | 0 | 20.7 | 173.49 | 96.44 | 290.94 |
| | Kurseong | 0 | 14.15 | 0 | 118.577 | 219.85 | 0 | 352.577 |
| | Darjeeling WL | 8 | 15.25 | 0.225 | 131.9 | 215.5 | 0 | 370.875 |
| | WBFS, Dowhill | 0 | 1.2 | 0.220 | 0.10 | 0.8 | 0 | 2.32 |
| Kalimpong | Kalimpong | 6 | 92.5 | 0 | 145.55 | 264.60 | 0 | 508.65 |
| Jalpaiguri | Baikunthapur | 0 | 0 | 0 | 76.53 | 120 | 0 | 196.53 |
| | Jalpaiguri | 0 | 0 | 0 | 234.69 | 4.40 | 0 | 239.09 |
| | Gorumara WL | 0 | 0 | 0 | 98.5 | 70 | 0 | 168.5 |
| Alipurduar | BTR East | 0 | 55 | 0 | 260 | 320 | 0 | 635 |
| | BTR West | 0 | 63 | 0 | 203 | 367 | 0 | 633 |
| | Jaldapara WL | 0 | 0 | 0 | 177.02 | 212.95 | 0 | 389.97 |
| Coochbehar | Cooch Behar | 0 | 0 | 0 | 94 | 0 | 0 | 94 |
| Uttar&Dakshin Dinajpur | Raiganj | 0 | 0 | 0 | 8 | 20 | 2.691 | 30.691 |
| Malda | Malda | 0 | 2.4 | 0 | 2.0 | 4.5 | 0 | 8.9 |
| Bankura | Bankura North | 0 | 30 | 0 | 145 | 0 | 0 | 175 |
| | Bankura South | 0 | 0 | 0 | 86 | 0 | 0 | 86 |
| | Panchet | 0 | 0 | 160 | 314 | 50 | 0 | 524 |
| Purulia | Kangsabati North | 0 | 0 | 0.8755 | 1 | 277.45 | 0 | 279.3255 |
| | Kangsabati South | 0 | 0 | 0 | 12 | 0 | 0 | 12 |
| | Purulia | 0 | 0 | 1007.60 | 132.787 | 0 | 0 | 1140.387 |
| Purba Bardhaman | Burdwan | 1.07 | 0 | 1.07 | 140 | 96 | 0 | 238.14 |



| District | Name of Division | Water Bound Macadam (Km.) | Block Top Motorable (Km.) | Cement concrete (Km.) | Earthen (Km.) | Non Motorable Foot Tracks (Km.) | Other Motorable Road (Km.) | Total (km.) |
|------------------------------|------------------|---------------------------|---------------------------|-----------------------|-----------------|---------------------------------|----------------------------|------------------|
| Paschim Bardhaman | Durgapur | 21 | 5.5 | 2.15 | 10 | 21.5 | 0 | 60.15 |
| Paschim Medinipur | Midnapur | 0 | 0 | 0 | 176 | 85.05 | 0 | 261.05 |
| | Rupnarayan | 0 | 0 | 0 | 73 | 0 | 0 | 73 |
| Jhargram | Jhargram | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Paschim Medinipur & Jhargram | Kharagpur | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Purba Medinipur | Purba Midnapur | 0 | 0 | 0.1 | 20 | 0 | 0 | 20.1 |
| Birbhum | Birbhum | 20.5 | 0 | 0 | 78 | 26 | 0 | 124.50 |
| Nadia & MSD | Nadia Msd | 5.87 | 0 | 0 | 30 | 10 | 0 | 45.87 |
| 24 Parganas (S) | 24 Parganas(S) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | STR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas (N) | 24 Parganas (N) | 0 | 0 | 0.42 | 0 | 10.5 | 0 | 10.92 |
| Howrah | Howrah | 0 | 0 | 0 | 10 | 15 | 0 | 25 |
| Total | | 62.44 | 279.31 | 1172.6605 | 2798.354 | 2584.59 | 99.131 | 6996.4855 |

6.3.1 Schedule of Forest Villages converted as Revenue Villages in Alipurduar District w.e.f 17.10.2014 under provision of The Schedule Tribes & Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006.

| Sl. No. | Name of the Forest Village | Name of the Forest Mouza to which the Village so far belongs to | J.L. No. | Police Station | Name of the newly formed Revenue Mouza | J.L. No. Assigned to the newly formed Revenue Mouza |
|---------|----------------------------|---|----------|----------------|--|---|
| 1 | Riti | Riti | 2 | Madarihat | Riti | 51 |
| 2 | BallalGuri | Titi Forest | 32 | | BallalGuri | 52 |
| 3 | Titi | | | | Titi | 53 |
| 4 | DumchiRava | Dumchi Forest | 25 | | DumchiRava | 54 |
| 5 | Dumchi | | | | Dumchi | 55 |
| 6 | Dalgaon | Dalgaon Forest | 8 | Falakata | Dalgaon | 65 |
| 7 | Lehra | | | | Lehra | 66 |
| 8 | Sanu | | | | Sanu | 67 |



| Sl. No. | Name of the Forest Village | Name of the Forest Mouza to which the Village so far belongs to | J.L. No. | Police Station | Name of the newly formed Revenue Mouza | J.L. No. Assigned to the newly formed Revenue Mouza |
|---------|---------------------------------|---|----------|----------------|--|---|
| 9 | Buxa Road 28 th Mile | Buxa Forest (Raja Bhatkhawa) | 43 | Kalchini | Buxa Road 28 th Mile | 46 |
| 10 | Buxa Road 29 th Mile | | | | Buxa Road 29 th Mile | 47 |
| 11 | LepchkhaDuar | | | | LepchkhaDuar | 48 |
| 12 | Uttar Panihora | | | | Uttar Panihora | 49 |
| 13 | Dara Gaon Buxa Duar | | | | Dara Gaon Buxa Duar | 50 |
| 14 | Buxa Duar | | | | Buxa Duar | 51 |
| 15 | Seugaon | | | | Seugaon | 52 |
| 16 | Lamna | | | | Lamna | 53 |
| 17 | TashiGaon | | | | TashiGaon | 54 |
| 18 | BhutiaBusti | | | | BhutiaBusti | 55 |
| 19 | PampuBusti | | | | PampuBusti | 56 |
| 20 | Uttar Poro | | | | Uttar Poro | 57 |
| 21 | GaramBusti | | | | GaramBusti | 58 |
| 22 | Kalkut | | | | Kalkut | 59 |
| 23 | PaniJhora | | | | PaniJhora | 60 |
| 24 | AdmaBusti | | | | AdmaBusti | 61 |
| 25 | Godam Bari | | | | Godam Bari | 62 |
| 26 | BamniBusti | | | | BamniBusti | 63 |
| 27 | 20 th Mile | | | | 20 th Mile | 64 |
| 28 | 21 st Mile | | | | 21 st Mile | 65 |
| 29 | Gadaliar | | | | Gadaliar | 66 |
| 30 | Raimatang | | | | Raimatang | 67 |
| 31 | NimtiDabri | | | | NimtiDabri | 68 |
| 32 | DakdhinPoro | | | | DakdhinPoro | 69 |
| 33 | Gangutia | | | | Gangutia | 70 |
| 34 | GaroBusti | | | | GaroBusti | 71 |
| 35 | Damanpur | | | | Damanpur | 72 |
| 36 | Raja BhatKhawa | | | | Raja BhatKhawa | 73 |
| 37 | Santra Bari | Buxa Hill Forest | 44 | Kalchini | Santra Bari | 74 |
| 38 | AdmaFulbari | | | | AdmaFulbari | 75 |
| 39 | AdmaPanbari | | | | AdmaPanbari | 76 |
| 40 | Chuna Bhatti | | | | Chuna Bhatti | 77 |



| Sl. No. | Name of the Forest Village | Name of the Forest Mouza to which the Village so far belongs to | J.L. No. | Police Station | Name of the newly formed Revenue Mouza | J.L. No. Assigned to the newly formed Revenue Mouza |
|---------|----------------------------|---|----------|------------------------------|--|---|
| 41 | Marchent Para | Nilpara Forest | 3 | Kalchini (Presently Jaygaon) | Marchent Para | 78 |
| 42 | Nil Para | | | | Nil Para | 79 |
| 43 | Dalbadal | Uttar Barajhar Forest | 1 | | Dalbadal | 80 |
| 44 | Bhutri | Bhutri Forest | 31 | Kalchini | Bhutri | 81 |
| 45 | Pana | | | | Pana | 82 |
| 46 | Andu | Bhalka Forest | 47 | Kumargram | Andu | 57 |
| 47 | LapraGuri | | | | LapraGuri | 58 |
| 48 | Balapara | | | | Balapara | 59 |
| 49 | Khuttimari | | | | Khuttimari | 60 |
| 50 | Bengdoba | | | | Bengdoba | 61 |
| 51 | PurabaSaldoba | | | | PurabaSaldoba | 62 |
| 52 | InduBusti | | | | InduBusti | 63 |
| 53 | BhutiaBusti | Sachaphu Forest | 1 | | BhutiaBusti | 64 |
| 54 | ChuniaJhora | | | | ChuniaJhora | 65 |
| 55 | Phanskhowa | | | | Phanskhowa | 66 |
| 56 | JoyantiHatipota | | | | JoyantiHatipota | 67 |
| 57 | New Lands | Dhumpara Forest | 32 | | New Lands | 68 |
| 58 | Sankosh | | | | Sankosh | 69 |
| 59 | Kumargram | | | | Kumargram | 70 |
| 60 | Shiltong | Raydak Forest | 11 | | Shiltong | 71 |
| 61 | Tiamari | | | | Tiamari | 72 |
| 62 | Chipra | | | | Chipra | 73 |
| 63 | Salkumar | Salkumar Forest | 15 | Alipurduar | Salkumar | 134 |
| 64 | Bania | Dakshin Barajhar Forest | 12 | | Bania | 135 |
| 65 | Chilapata Kumai | | | | Chilapata Kumai | 136 |
| 66 | AnduBusti | | | | AnduBusti | 137 |
| 67 | Kurmai | | | | Kurmai | 138 |
| 68 | Motharam | | | | Motharam | 139 |
| 69 | KodalBasti | | | | KodalBasti | 140 |

* Ref: -G.O. No. - 2802-LP dated 17.10.2014 issued from Land & Land Reforms Department, Land Policy Branch, Govt. of West Bengal



6.3.2 Schedule of Forest Villages converted as Revenue Villages in Jalpaiguri District w.e.f 29.09.2014 under Provision of The Schedule Tribes & Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006.

| Sl. No. | Name of the Forest Village | Name of the Forest Mouza to which the Village so far belongs to | J.L. No. | Police Station | Name of the newly formed Revenue Mouza | J.L. No. Assigned to the newly formed Revenue Mouza |
|---------|----------------------------|---|----------|---------------------------------------|--|---|
| 1 | Kalarnati | Forest Ramsai | 3 | Maynaguri | Kalamati | 91 |
| 2 | Budhuram | | | | Budhuram | 92 |
| 3 | Chakowa | | | | Chakowa | 93 |
| 4 | Kalipur | | | | Kalipur | 94 |
| 5 | Baradhighi | NimnaTandu Forest | 31 | Matiali | Baradhighi | 32 |
| 6 | Barnni | | | | Bamni | 33 |
| 7 | South Indong | | | | South Indong | 34 |
| 8 | BichaBhanga | | | | BichaBhanga | 35 |
| 9 | Saraswati | | | | Saraswati. | 36 |
| 10 | Murti | | | | Murti | 37 |
| 11 | Uttar DhupJhora | | | | Uttar DhupJhora | 38 |
| 12 | Mela | Maraghat Forest | 28 | Dhupguri (Presently Within Banarhat) | Mela | 109 |
| 13 | Khuntimari | | | | Khuntirnari | 110 |
| 14 | Sonakhali | Gosair Hat Forest | 58 | Dhupguri | Sonakhali | 111 |
| 15 | Gossaihat | | | | Gossaihat | 112 |
| 16 | Khuklong | | | | Khuklong | 113 |
| 17 | Sipchu | Diana Forest | 23 | Nagrakata (Presently within Dhupguri) | Sipchu | 34 |
| 18 | Panjhora | | | | Panjhora | 35 |
| 19 | North Indong | | | | North Indong | 36 |
| 20 | New Khunia | | | | NewKhunia | 37 |
| 21 | Dakshin Panjhora | | | | Dakshin Panjhora | 38 |
| 22 | GajolDoba | Appal Chand Forest | 16 | Mal | GajolDoba | 108 |
| 23 | MechBasti | | | | MechBasti | 109 |
| 24 | Magurmari | | | | Magurmari | 110 |
| 25 | Sologharia | | | | Sologharia | 111 |

***Ref:** G.O. No. - 2699-LP dated 29.09.2014 issued from Land & Land Reforms Department, Land Policy Branch, Govt. of West Bengal



6.3.3 Schedule of Forest Villages converted as Revenue Villages in Kalimpong District w.e.f 18.09.2020 under provision of The Schedule Tribes & Other Traditional Forest Dwellers (Recognition of Forest Rights) Act,2006.

| Sl No. | Name of the Forest Village | Name of the Forest Mouza to which the Village so far belongs to | J.L. No. | Police Station | Name of the newly formed Revenue Mouza | J.L. No. Assigned to the newly formed Revenue Mouza |
|--------|-------------------------------|---|----------|----------------|--|---|
| 1 | Lolay Gaon Forest Village | Lulagaon Forest | 62 | Kalimpong | Lolay Gaon Forest Village | 92 |
| 2 | Kaffer Forest Village | Kaffer Forest | 40 | | Kaffer Forest Village | 93 |
| 3 | Pemling F V | Pemling Forest | 63 | | Pemling FV | 94 |
| 4 | Mongpong FV (Check Post) | Mangpong Forest | 85 | | Mongpong FV (Check post) | 95 |
| 5 | Mongpong FV (Chaa acre) | | | | Mongpong FV (Chaa acre) | 96 |
| 6 | Chunabhati FV Chel Range | Lish Forest | 86 | | Chunabhati FV Chel Range | 97 |
| 7 | Tarzam F V | Turzam Forest | 75 | | Tarzam FV | 98 |
| 8 | Kamshi FV | Comesi Forest | 72 | | Kamshi FV | 99 |
| 9 | Tashiding Forest Village | Tashiding Forest | 54 | | Tashiding Forest Village | 100 |
| 10 | Nazok FV | Mazeok Forest | 79 | | Nazok FV | 101 |
| 11 | Shivagram F V | Riyang Forest | 74 | | Shivagram FV | 102 |
| 12 | Saraswati FV | | | | Saraswati FV | 103 |
| 13 | Birik Forest Village | Birik Forest | 78 | | Birik Forest Village | 104 |
| 14 | Tangey FV | | | | Tangey FV | 105 |
| 15 | Mongwa 3 Block FV | Mangwa Forest | 53 | | Mongwa 3 Block FV | 106 |
| 16 | Gelikhola FV | | | | Gelikhola FV | 107 |
| 17 | 29 Mile Baluwakhani FV | | | | 29 Mile Baluwakhani FV | 108 |
| 18 | Melli FV | Kalimpong Damsang Forest | 54 | | Melli FV | 109 |
| 19 | Chitrey FV | Bhalukhop Forest | 50 | | Chitery FV | 110 |
| 20 | Kirmay FV | Bhalukhop Forest | 26 | | Kimay FV | 111 |
| 21 | Bhalukhop FV | Ragpo Forest | 1 | | Bhalukhop FV | 112 |
| 22 | Mamkhola | Mangchu Forest | 2 | | Mamkhola | 113 |
| 23 | Tarkhola FV | | | | Tarkhola FV | 114 |
| 24 | Rangpo FV | | | | Rangpo FV | 115 |
| 25 | Mangchu 10 th Mile | | | | Mangchu 10 th Mile | 116 |
| 26 | Mangchu 11 th Mile | | | | Mangchu 11 th Mile | 117 |
| 27 | Mangchu 12 th Mile | | | | Mangchu 12 th Mile | 118 |
| 28 | Echhey Forest Village | Icha Forest | 24 | | Echhey Forest Village | 119 |
| 29 | Kharka FV | Dalapchan Ridge Resrve Forest | 29 | | Kharka FV | 120 |
| 30 | Dalapchand FV | | | | Dalapchand FV | 121 |
| 31 | Chumang Forest Village | Chumang Forest | 35 | | Chumang Forest Village | 122 |
| 32 | Paiyong Forest Village | Paiengaon Forest | 22 | | Paiyong Forest Village | 123 |
| 33 | Paiyong Parment FV | | | | Paiyong Parment FV | 124 |
| 34 | Algarah FV | Mayrong Forest | 20 | | Algrah FV | 125 |
| 35 | Mairung Forest Village | | | | Mairung Forest Village | 126 |
| 36 | Maneydara FV | | | | Maneydara FV | 127 |
| 37 | Kolbong FV | Lava Forest | 16 | | Kolbong FV | 128 |
| 38 | Lava FV | | | | Lava FV | 129 |
| 39 | Rissisum FV | Rissisum Forest | 18 | | Rissisum FV | 130 |



| Sl No. | Name of the Forest Village | Name of the Forest Mouza to which the Village so far belongs to | J.L. No. | Police Station | Name of the newly formed Revenue Mouza | J.L. No. Assigned to the newly formed Revenue Mouza |
|--------|----------------------------|---|----------|----------------|--|---|
| 40 | Ghish FV (12/15 Gharey) | Lethi Forest | 19 | Garubathan | Ghish (12/15 Gharey) | 39 |
| 41 | Mai-4FV | Mal Forest | 30 | | Mal - 4 FV | 40 |
| 42 | Bhuttabari FV | | | | Bhuttabari FV | 41 |
| 43 | Special Busty FV | | | | Special Busty FV | 42 |
| 44 | Dalim FV | Dalingkot | 26 | | Dalim FV | 43 |
| 45 | Khar Khola FV | Sakam Forest | 33 | | Kharkhola FV | 44 |
| 46 | Sakham FV | | | | Sakham FV | 45 |
| 47 | Kharkhola Milan Tar FV | | | | Khar Khola Milan Tar FV | 46 |
| 48 | Soureni FV | | | | Soureni FV | 47 |
| 49 | Noam FV | Noam Forest | 18 | | Noam FV | 48 |
| 50 | Samsing Fari FV | Eastnar Forest | 34 | | Samsing Fari FV | 49 |
| 51 | Samsing Compund FV | | | | Samsing Compound FV | 50 |
| 52 | Buri++Khola FV | | | | Buri Khola FV | 51 |
| 53 | Chilouney FV | | | | Chilouney FV | 52 |
| 54 | Paren Compound FV | Paren Forest | 7 | | Paren Compound FV | 53 |
| 55 | Dholouley FV | | | | Dholouley FV | 54 |
| 56 | Fagu FV | | | | Fagu FV | 55 |
| 57 | Fagu 2 FV | Pogu Forest | 22 | | Fagu 2 FV | 56 |
| 58 | Kopish FV | Khumani Forest | 38 | | Kopish FV | 57 |
| 59 | Kumani FV | | | | Kumani FV | 58 |
| 60 | Mourey FV | | | | Mourey FV | 59 |
| 61 | Rango CFC FV | Rango Forest | 8 | | Rango CFC FV | 60 |
| 62 | Rango Dhap FV | | | | Rango Dhap FV | 61 |
| 63 | Bhotey Tar FV | Westnar Forest | 12 | | Bhotey Tar FV | 62 |
| 64 | Tangta FV | Today Tangta Khas Mahal | 4 | | Tangta FV | 63 |

* **Ref:** G.O. No. - 1879-LP dated 18.09.2020 issued from Land & Land Reforms Department, Land Policy Branch, Govt. of West Bengal



6.4 STATUS OF FOREST CHECK POST (F.C.P.) IN WEST BENGAL AS ON 31.03.2021

As Per the Office Order No -04-Misc/PGLI/2021, there are 30 numbers of Forest Check Posts functional in West Bengal as on 31.03.2021.

| Circle | Division | Name of the Range | Location of Check Post |
|----------------|---------------------|-------------------|-------------------------------|
| Western | Kharagpur | Belda | Deuli (On Belda-Contai Road) |
| | | Kalaikunda | Kalaikunda (On NH-6) |
| | Medinipur | Chandrakona | Andharnayan |
| | Jhargram | Gopiballavpur | Gopiballavpur |
| | Rupnarayan | Amlagora | Raskundu |
| Central | Bankura (North) | Bankura North | Heavy More |
| | Bankura (South) | Ranibandh | Ranibandh |
| | Panchet | Joypur | Joypur |
| Hill | Kalimpong | Kalimpong | Chitray |
| | | Kalimpong | Rangpo |
| | | Chel | Mangpong |
| Hill | Kurseong | Bagdogra | Gossainpur |
| | | Bagdogra | Ghoshpukur |
| | Darjeeling | Darjeeling | Ghoom Bhanjang |
| Wildlife North | Darjeeling Wildlife | Senchal East | Simkuna, 3 rd Mile |
| | Jaldapara Wildlife | Chilapata | Chilapata |
| | | Kodalbasti | Kodalbasti |
| | | Madarihat | Madarihat |
| | | Hasimara | Hasimara |
| BTR | BTR (East) | Bholka | Barobisha on NH 31 C |
| | BTR (West) | East Damanpur | B.F. Road |
| South-East | Birbhum | Bolpur | Illambazar |
| South-West | Kangsabati (South) | Jamuna | Chirudi |
| | Purulia | Jhaldar | Ona Tarhad |
| Northern | Coochbehar | MPP | Talliguri |
| | Jalpaiguri | Teesta Bridge | NH 31 near Teesta Bridge |
| | Baikunthaapur | Kathambari | New Depot, Kathambari |
| | | Salugara | 2 Mile |
| | | Targhera | Gazaldoba |
| North-West | Siliguri S.F. | Ghoshpukur | Muraligach |



6.5 OUT TURN OF FOREST PRODUCE FOR FINANCIAL YEAR 2020-21

As per Divisional report, area felled during F.Y.2020-21 was 5215.135 ha and outturn of Timber was 21977.755 m³, outturn of Firewood was 78826.586 m³, outturn of Firewood was 8829.12 m³. The outturn of poles, post and cogging sleeper was 1858135, 8725 and 267262 numbers respectively and it includes the produce of all dimensions and of all species.

| Name of Division | Area felled (in Ha) | Outturn of Timber (in M ³) | Outturn of Fire wood (in M ³) | Outturn of Pulp wood (in M ³) | Outturn of Poles in Nos. | Outturn of Post in Nos. | Outturn of Cogging Sleepers in Nos. |
|------------------|------------------------|---|--|--|-----------------------------|----------------------------|--|
| Darjeeling | 0 | 82.091 | 0 | 0 | 0 | 0 | 0 |
| Kurseong | 0 | 242.87 | 0 | 0 | 0 | 0 | 0 |
| Kalimpong | 0 | 420.104 | 0 | 0 | 0 | 0 | 0 |
| Darjeeling WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Siliguri SF | 0 | 18.650 | 0 | 0 | 0 | 0 | 0 |
| Baikunthapur | 0 | 1051.358 | 0 | 0 | 0 | 0 | 0 |
| Jalpaiguri | 0 | 88.157 | 0 | 0 | 0 | 0 | 0 |
| BTR East | 0 | 730.929 | 0 | 0 | 0 | 0 | 0 |
| BTR West | 0 | 649.471 | 0 | 0 | 0 | 0 | 0 |
| Coochbehar | 9.90 | 1595.129 | 46.2 | 0 | 0 | 0 | 0 |
| Jaldapara WL | 493.235 | 264.31 | 0 | 0 | 0 | 0 | 0 |
| Gorumara WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Raiganj | 0 | 580.638 | 218.127 | 0 | 0 | 0 | 0 |
| Malda | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura North | 972.5 | 3402.017 | 22193.51 | 0 | 460036 | 0 | 124059 |
| Bankura South | 877 | 3116.253 | 11690.250 | 0 | 369304 | 0 | 96307 |
| Panchet | 518 | 3688.302 | 4826.936 | 0 | 244709 | 0 | 46896 |
| Kangsabati North | 321 | 187.424 | 11465.684 | 0 | 429 | 0 | 0 |
| Kangsabati South | 258 | 208.112 | 2921.85 | 0 | 19783 | 0 | 0 |
| Purulia | 46 | 149.824 | 1246.347 | 0 | 600 | 0 | 0 |
| Burdwan | 300 | 1684.122 | 5620.941 | 0 | 254997 | 0 | 0 |
| Durgapur | 68 | 405.064 | 2271.19 | 0 | 20013 | 0 | 0 |
| Midnapur | 274 | 921.4 | 4967.126 | 8829.12 | 155733 | 0 | 0 |
| Jhargram | 416 | 721.754 | 5198.937 | 0 | 203766 | 0 | 0 |
| Rupnarayan | 360 | 556.731 | 1060.432 | 0 | 81943 | 0 | 0 |
| Kharagpur | 81.50 | 105.759 | 3033.522 | 0 | 15965 | 0 | 0 |
| Purba Midnapur | 0 | 78.199 | 1552.50 | 0 | 0 | 0 | 0 |
| Birbhum | 220 | 671.494 | 377.754 | 0 | 30817 | 8725 | 0 |
| Nadia Msd | 0 | 289.697 | 54.406 | 0 | 40 | 0 | 0 |
| 24 Parganas(S) | 0 | 0 | 10.00 | 0 | 0 | 0 | 0 |
| STR | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 24 Parganas (N) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Howrah | 0 | 67.896 | 70.874 | 0 | 0 | 0 | 0 |
| Total | 5215.135 | 21977.755 | 78826.586 | 8829.12 | 1858135 | 8725 | 267262 |

Note:

Outturn of Timber, pulpwood & Firewood includes that of all species.

Outturn of Poles, Posts and Cogging sleepers includes various dimensions and of all species.

Firewood Stack Volume taken as 0.84 m³ per stack.





6.6 OUTTURN OF MINOR FOREST PRODUCE FOR THE YEAR 2020-21

| NTFP | Unit | Darjeeling | NTFP | Bankura (North) | Bankura (South) | Panchet | Kang -North | Kang- South | Medinipur | Jhargram | Rupnarayan | Kharagpur | Purba Medinipur | 24 Parganas South | STR | BTR West | Total |
|------------------|-------|------------|--------|-----------------|-----------------|---------|-------------|-------------|-----------|----------|------------|-----------|-----------------|-------------------|-----|----------|--------|
| BAMBOO | Nos | 102000 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102000 |
| HONEY | Kg | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 389 | 0 | 389 |
| CASHEW | Kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| AMLOKI | Qntl. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BAHERA | Qntl | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 0 | 0 |
| MAHUA FLOWER | Qntl | 0 | 0 | 0 | 0 | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 100 |
| MAHUA SEED | Qntl | 0 | 0 | 0 | 00 | 0 | 501 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 501 |
| NATA SEED | Qntl | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 |
| NEEM SEED | Qntl | 0 | 0 | 0 | 0 | 00 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| KENDU LEAVES | Qntl | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 |
| SAL SEED | Qntl | 0 | 0 | 0 | 00 | 0 | 1.5 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.5 |
| CITRONELLA OIL | Ltr. | 0 | 231.2 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 00 | 0 | 0 | 00 | 0 | 231.2 |
| CITRONELLA GRASS | Qntl | 0 | 605.05 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 00 | 0 | 605.05 |
| HARITAKI | Qntl | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 |
| KUSUM | Qntl | 0 | 0 | 0 | 0 | 0 | 30 | 0 | 0 | 0 | 0 | 00 | 0 | 00 | 0 | 0 | 30 |
| KARANJ | Qntl | 0 | 0 | 0 | 0 | 0 | 750 | 00 | 0 | 0 | 0 | 0 | 0 | 00 | 00 | 0 | 750 |
| KURCHI | Qntl | 0 | 00 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 00 | 0 | 0 | 00 | 0 | 0 |
| PIAL | kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 00 | 0 | 0 | 0 |
| TULSI | Kg | 0 | 25.00 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 00 | 0 | 0 | 00 | 0 | 25 |

| NTP | Unit | Darjeeling | NTEP | Bankura (North) | Bankura (South) | Panchet | Kang - North | Kang- South | Medinipur | Jhargram | Rupnarayan | Kharagpur | Purba Medinipur | 24 Parganas South | STR | BTR West | Total |
|---------------|-------|------------|------|-----------------|-----------------|---------|--------------|-------------|-----------|----------|------------|-----------|-----------------|-------------------|-----|----------|-------|
| BLACK PEPPER | Kg | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 |
| PURNAVA | Kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 00 | 0 | 0 | 0 |
| GANDAL PATA | Kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 |
| DHADHKI PHOOL | QTL | 0 | 00 | 0 | 0 | 0 | 0 | 00 | 00 | 0 | 0 | 00 | 0 | 0 | 00 | 0 | 0 |
| KUCHILA SEED | QTL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 00 | 0 | 00 | 0 | 0 | 0 |
| GUM | Qntl | 0 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 00 | 0 | 0 | 00 | 0 | 0 |
| MUSHROOM | Kg. | 0 | 0 | 0 | 0 | 0 | 150 | 0 | 00 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 150 |
| GULANCHA | Qntl. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 00 | 0 | 0 |
| SHYAMLATA | Qntl | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 00 | 0 | 0 | 0 | 0 | 0 |
| BEL | nos | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 00 | 0 | 0 |
| KALMEGH | Qntl | 0 | 7.00 | 0 | 0 | 0 | 0 | 0 | 00 | 00 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| VASAK PATA | Kg. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 00 | 0 | 00 | 0 | 0 | 0 |
| GURMAR | Kg | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 0 | 0 | 0 |
| BOULDER | M3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 00 | 7000 | 7000 |
| RBM | M3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 0 | 00 | 00 | 0 | 0 | 0 | 0 |



Table 6.7: Value (in ₹ lakh) of NTFP collected in various Forest Divisions in West Bengal.

| Division | Bamboo | Honey | Kendu Leaves | Sal Seeds | Cashew Seeds | Bahera | Haritaki | Mushroom | Neem | Kusum | Citronella Grass | Citronella Oil | Mahua Flower | Mahua Seeds | Boulder | RBM | Others | Total Value |
|------------------|--------|-------|--------------|-----------|--------------|--------|----------|----------|------|-------|------------------|----------------|--------------|-------------|---------|-----|--------|-------------|
| Baikunthapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura (North) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Birbhum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bankura South | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BTR (E) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BTR (W) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10.61 | 0 | 0.21 | 10.82 |
| Burdwan | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Coochbehar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Darjeeling | 1.275 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.275 |
| Durgapur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Darjeeling WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Gorumara WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Howrah | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jaldapara WL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jalpaiguri | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Jhargram | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kangsabati North | 0 | 0 | 0 | 0.02 | 0 | 0 | 0 | 0.30 | 0.10 | 0.60 | 0 | 0 | 0.15 | 0.70 | 0 | 0 | 0.38 | 2.25 |
| Kangsabati South | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kharagpur | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |



| | | | | | | | | | | | | | | | | | | |
|------------------|----------|-----------|-------|-----------|-------------------|------|---------|-----------------|---------|---------|------------|-----------------|-----------------|-----|---------------|-------|---|--------|
| Total Value | 0 | 0 | 0 | 0 | 0 | 5.44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.64 | 0 | 20.425 |
| Others | 0 | 0 | 0 | 0 | 0 | 0.21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.8 |
| RBM | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Boulder | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10.61 |
| Mahua Seeds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.7 |
| Mahua Flower | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.15 |
| Citronella Oil | 0 | 0 | 0 | 0 | 0 | 4.02 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.02 |
| Citronella Grass | 0 | 0 | 0 | 0 | 0 | 1.21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.21 |
| Kusum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.6 |
| Neem | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.1 |
| Mushroom | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.3 |
| Haritaki | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bahera | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Cashew Seeds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sal Seeds | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.02 |
| Kendu Leaves | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Honey | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.64 | 0 | 0 | 0.64 |
| Bamboo | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1.275 |
| Division | Kurseong | Kalimpong | Malda | Medinipur | Nadia-Murshidabad | NTFP | Panchet | Purba-Medinipur | Purulia | Raiganj | Rupnarayan | 24 Parganas (N) | 24 Parganas (S) | STR | Wildlife (HQ) | Total | | |



6.8 MANDAYS GENERATED DURING F.Y. 2020-21 IN FORESTRY ACTIVITIES

Mandays generated in various Forestry activities during F.Y. 2020-21 was 31,13,602 and the average wage rate was ₹ 247.00 – ₹ 260.00.

| Name of Forest Division | Mandays Generated | Average Wage Rate (in INR) |
|-------------------------|-------------------|----------------------------|
| Darjeeling | 4154 | 257.00 |
| Kurseong | 41636 | 244.00 |
| Kalimpong | 0 | 0 |
| Baikunthapur | 54988 | 244.00 |
| Jalpaiguri | 24673 | 260.00 |
| NTFP | 862 | 244.00 |
| Siliguri S.F | 30151 | 244.00 |
| Jalpaiguri S.F | 19489 | 247.00 |
| BTR East | 21165 | 247.00 |
| BTR West | 17405 | 257.00 |
| Coochbehar | 7542 | 260.00 |
| Darjeeling WL | 21543 | 245.00 |
| Jaldapara WL | 96947 | 260.00 |
| Gorumara WL | 33773 | 257.00 |
| Raiganj | 42120 | 247.00 |
| Malda | 14546 | 257.00 |
| Bankura North | 51787 | 257 |
| Bankura South | 256120 | 257 |
| Panchet | 137389 | 247.00 |
| Kangsabati North | 189493 | 257.00 |
| Kangsabati South | 0 | 0 |
| Purulia | 462080 | 247.00 |
| Burdwan | 8766 | 260.00 |
| Durgapur | 24223 | 247.00 |
| Midnapur | 65723 | 257.00 |
| Jhargram | 294 | 257.00 |
| Rupnarayan | 227561 | 257.00 |
| Kharagpur | 119022 | 247.00 |
| Purba Midnapur | 86269 | 257.00 |
| Birbhum | 64428 | 243.00 |
| Nadia Murshidabad | 49395 | 244.00 |



| Name of Forest Division | Mandays Generated | Average Wage Rate (in INR) |
|------------------------------|-------------------|----------------------------|
| Howrah | 63228 | 247.00 |
| EFD | 67790 | 257.00 |
| 24 Parganas(S) | 427086 | 204-257 |
| 24 Parganas(N) | 6347 | 257.00 |
| STR | 37989 | 260 |
| Monitoring North | 1076 | 260.00 |
| Monitoring South | 5782 | 260 |
| Kurseong Soil Conservation | 4282 | 243.00 |
| Jalpaiguri Soil Conservation | 24821 | 257.00 |
| Silviculture South | 13048 | 244.00 |
| Silviculture North | 8943 | 250.00 |
| Silviculture Hill | 11236 | 257.00 |
| Working Plan North | 13199 | 260.00 |
| Working Plan S-I | 3450 | 250.00 |
| Working Plan S-II | 0 | 0 |
| WBFS, Dowhill | 1737 | 260.00 |
| Parks & Gardens (N) | 146626 | 247.00 |
| SFTI, Hijli | 3458 | 260.00 |
| URF | 99960 | 340.00 |
| Total | 31,13,602 | 247.00 |

6.9 REPORT ON AVAILABILITY OF LAND FOR PLANTATION OVER NEXT 10 YEARS

West Bengal Forest Directorate has been undertaking afforestation works in blank and degraded areas both inside and outside the forest areas over the past several years. As per the directions of Principal Chief Conservator of Forests and Head of Forest Force, it was decided to create a data base of availability of blank and degraded forest areas for plantation for coming next 10 years in order to ensure proper Planning and implementation.

In view of the above, all the circles were requested to submit the details of area available for plantations including Blank and degraded areas both inside and outside the forest areas along with geo coordinates. All the circles after receipt of data from divisions have submitted the details to Finance wing of Forest Directorate.

The details so provided were given to GIS lab under Conservator of Forests Working Plan and GIS circle. All the areas so identified, were mapped by the GIS lab. The total blank area available for plantation inside the forest area is 6615.84ha and total degraded forest area available for plantation is 3231 ha. Similarly the area available for plantations outside the forest area is 1829ha.



Abstract of Blank and Degraded area available for Plantation.

| Circle | Division | Blank area available (ha) | Degraded area available (ha) | Total |
|--------------------|--------------------|---------------------------|------------------------------|-----------------|
| Central | Bankura North | 485 | 400 | 885 |
| | Bankura South | 1898.051 | 0 | 1898.051 |
| | Panchet | 0 | 0 | 0 |
| Western | Jhargram | 0 | 0 | 0 |
| | Rupnarayan | 0 | 15 | 15 |
| | Medinipur | 0 | 126 | 126 |
| | Khargapur | 10 | 141 | 151 |
| | East medinipur | 55 | 0 | 55 |
| South West | Purulia | 909.5 | 409 | 1318.5 |
| | KSC north | 342 | 124 | 466 |
| | KSC South | 1834.79 | 275 | 2109.79 |
| | Extension forestry | 379 | 0 | 379 |
| South East | Durgapur | 0 | 90 | 90 |
| | Burdwan | 0 | 65 | 65 |
| | Birbhum | 0 | 311 | 311 |
| SBR | Nadia Murashidabad | 0 | 105 | 105 |
| Hill | Darjeeling | 36.5 | 17 | 53.5 |
| | Kalimpong | 0 | 95 | 95 |
| | Kurseong | 118 | 50 | 168 |
| Northern Circle | Baikuntpur | 67 | 6 | 73 |
| | Jalpaiguri | 150 | 400 | 550 |
| | Coochbehar | 160 | 150 | 310 |
| BTR | BTR East | 166 | 147 | 313 |
| | BTR West | 0 | 305 | 305 |
| NW | Malda | 5 | 0 | 5 |
| Grand Total | | 6615.841 | 3231 | 9846.841 |

Abstract of Area available for plantation outside Forest

| Circle | Division | Blank area available (ha) | Circle total (ha) |
|---------|---------------|---------------------------|-------------------|
| Central | Bankura North | 109.5 | 364 |
| | Bankura South | 204.68 | |
| | Panchet | 50 | |



| Circle | Division | Blank area available (ha) | Circle total (ha) |
|--------------------|--------------------|---------------------------|-------------------|
| Western | Jhargram | 0 | 35 |
| | Rupnarayan | 0 | |
| | Medinipur | 0 | |
| | Khargapur | 0 | |
| | East Medinipur | 35 | |
| South West | Purulia | 0 | 296 |
| | KSC north | 0 | |
| | KSC South | 0 | |
| | Extension forestry | 296.4 | |
| South East | Durgapur | 55 | 598 |
| | Burdwan | 543 | |
| | Birbhum | 0 | |
| SBR | Nadia Murashidabad | 0 | 0 |
| Hill | Darjeeling | 0 | 0 |
| | Kalimpong | 0 | |
| | Kurseong | 0 | |
| Northern Circle | Baikuntpur | 0 | 180 |
| | Jalpaiguri | 0 | |
| | Coochbehar | 180 | |
| BTR | BTR East | 0 | 0 |
| | BTR West | 0 | |
| NW | Malda | 355 | 355 |
| Grand Total | | | 1829 |



ACRONYMS AND ABBREVIATIONS

| | | |
|----|--------|---|
| 1 | AC | Air Conditioned |
| 2 | ATR | Action Taken Report |
| 3 | AWC | Available Water Capacity |
| 4 | CAMPA | Compensatory Afforestation Fund Management and Planning Authority |
| 5 | CID | Community Infrastructure Development |
| 6 | COR | Compoundable Offence Report |
| 7 | CZA | Central Zoo Authority |
| 8 | DB | Double Bedded |
| 9 | DCF | Deputy Conservator of Forests |
| 10 | DMU | Divisional Management Unit |
| 11 | DPR | Detailed Project Report |
| 12 | FCA | Forest Conservation Act |
| 13 | FDA | Forest Development Agency |
| 14 | FMU | Field Management Unit |
| 15 | FRLHT | Foundation for Revitalisation of Local Health Traditions |
| 16 | GIS | Geographic Information System |
| 17 | IGA | Income Generation Activity |
| 18 | IFS | Indian Forest Service |
| 19 | ISFR | India State of Forest Report |
| 20 | JFMC | Joint Forest Management Committee |
| 21 | KFRI | Kerala Forest Research Institute |
| 22 | LGP | Lower Gangetic Plain |
| 23 | MIC | Minister in Charge |
| 24 | MOS | Minister of State |
| 25 | MPCA | Medicinal Plant Conservation Areas |
| 26 | MPP | Mobile Patrolling Party |
| 27 | NMPB | National Medicinal Plants Board |
| 28 | NTFP | Non Timber Forest Produce |
| 29 | NRSA | National Remote Sensing Agency |
| 30 | POR | Prosecution Offence Report |
| 31 | RET | Rare Endangered Threatened |
| 32 | SHG | Self Help Groups |
| 33 | SLUSI | Soil and Land Use Survey of India |
| 34 | TOF | Trees Outside Forests |
| 35 | UDOR | Un-Detected Offence Report |
| 36 | WBFBCP | West Bengal Forest and Biodiversity Conservation Project |
| 37 | WBFS | West Bengal Forest Service |
| 38 | WBZA | West Bengal Zoo Authority |







Department of Forests
Government of West Bengal