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# Appendices



**Appendix 2.1**  
(Referred to in paragraph 2.1.7; page 19)

**Categories and score of PAs in Jharkhand as per Reports of the Wildlife Institute of India**

Sl. No.	Name of the Sanctuary	Period of MEE Report	Year of Evaluation	Category of PA	MEE Score (in per cent)
1	Dalma WLS	2006-14	2006-09	Good	69.70
2	Hazaribagh WLS	2006-14	2009-10	Fair	53.91
3	Koderma WLS	2006-14	2012-13	Fair	51.67
4	Udhwa Lake Bird Sanctuary	2015-17	2015-16	Good	60.00
5	Palkot WLS	2015-17	2016-17	Good	62.50
6	Gautam Buddha WLS	2017-18	2017-18	Fair	56.67
7	Lawalong WLS	2017-18	2017-18	Fair	46.67
8	Mahuadanr Wolf Sanctuary	2018-19	2018-19	Good	60.83
9	Topchanchi WLS	2018-19	2018-19	Fair	43.33
10	Parasnath WLS	2018-19	2018-19	Fair	58.33
11	Palamau Tiger Reserve (includes the area of Palamau WLS and Betla NP)	2022	2006	Very good	76.22
			2010	Poor	38.33
			2014	Fair	54.03
			2018	Fair	53.91
			2022	Good	65.91

**Scoring criteria-**

**For WLS- Poor: upto 40%, Fair: 41% to 59%, Good: 60% to 74% and Very Good: 75% and above.**

**For Tiger Reserve- Fair: 50% to 59%, Good: 60% to 74% and Very Good: 75% to 89% and Excellent: 90% and above.**

**Appendix 2.2**  
(Referred to in paragraph 2.1.7; page 20)

**Actionable points suggested by WII and action taken by GoJ**

Sl. No.	Name of PA/ MEE Report	Immediate actionable Points	Remarks
1	Topchanchi (MEE Report, 2018-19)	1. A management plan should be prepared for the sanctuary immediately.	Not prepared as of July 2023 as discussed in <b>Paragraph 2.2.2.</b>
		2. Topchanchi and Parasnath being part of the same contiguous landscape, can be merged into a single PA for effective management.	Not merged as of July 2023 as discussed in <b>Paragraph 2.2.2.</b>
		3. All the 14 existing EDCs need to be revived. Sufficient resources should be made available for better functioning of these EDCs.	Against the required constitution of 116 EDCs in Parasnath and Topchanchi, only 33 EDCs had been constituted out of which only four were functional as on July 2023 as discussed in <b>Paragraph 2.4.7.1. and Appendix 2.4.</b>
		4. Boundaries of the sanctuary should be verified and demarcated on the ground.	Boundaries were yet to be erected based on DGPS survey as discussed in <b>Paragraph 2.4.1.1.</b>
		5. Staff strength should be augmented and trained in wildlife management.	There was huge shortage of staff as of March 2023 and staff had not been given training as discussed in <b>Paragraph 2.4.1.3.</b>
2	Parasnath (MEE Report, 2018-19)	1 The sanctuary requires a well-planned pilgrimage management strategy and action plan.	Pilgrimage management strategy or action plan was not prepared and there was no control over the visitors/pilgrims in PA as discussed in <b>Paragraph 2.4.6.5.</b>
		2. Establishing a decentralized institutional arrangement (Conservation-Development Trust or Foundation) to support the area.	Not considered by the Department. Still managed by Wildlife Division, Hazaribagh.
		3. Education and interpretation facilities need to be created.	Nature Interpretation Centre not created as of August 2023 as discussed in <b>Paragraph 2.4.5.1.</b>
3	Lawalong (MEE Report, 2017-18).	1. Abundance of wildlife was extremely low	Still persists as discussed in <b>Paragraph 2.4.3.2 and Appendix 2.17.</b>
4	Gautam Buddha (MEE Report, 2017-18)	1. Landscape level planning for recovery of wildlife as Gautam Buddha, Koderma, Hazaribagh, Lawalong and PTR are ecologically contiguous.	Landscape level planning was not done with respect to the identified corridors to secure un-disturbed movement of wild animals as discussed in <b>Paragraph 2.2.3.</b>
		2. Tourism potential of the sanctuary is enormous and under-utilised.	Eco-tourism infrastructure yet to be developed as discussed in <b>Paragraph 2.4.6.1.</b>
5	Mahuadanr (MEE Report, 2018-19)	1. Permanent and daily wage staff needs initial and refresher training in wildlife management.	There was absence of training to permanent and daily wage staff as discussed in <b>Paragraph 2.4.1.2 and 2.4.1.3.</b>
		2. Education and interpretation	Nature Interpretation Centre not created

Sl. No.	Name of PA/ MEE Report	Immediate actionable Points	Remarks
		facilities need to be created.	as of August 2023 as discussed in <b>Paragraph 2.4.5.1.</b>
		3. Existing eco-development programmes need a lot of strengthening.	Eco-development programme was weak as discussed in <b>Paragraph 2.4.7.1.</b>
6	Dalma (MEE Report, 2006-14)	1. Shortage of human resources need to be addressed immediately.	There was shortage of staff as on March 2023 as discussed in <b>Paragraph 2.4.1.3.</b>
		2. The conflict with stone quarry lease holders from the fringes to be sorted out immediately.	Prescribed plan was not prepared as discussed in <b>Paragraph 2.2.6.</b>
7	Palkot (MEE Report, 2015-17)	1. Alternative livelihood option to resource dependent communities.	Eco-development programme was weak as discussed in <b>Paragraph 2.4.7.1 .</b>
		2. Forest rights should be settled.	Final notification after settling all claims not done as discussed in <b>Paragraph 2.2.1.</b>
		3. Special efforts to contain forest fire.	There was lack of fire management as discussed in <b>Paragraph 2.4.2.1.</b>
		4. To identify corridor and the problem associated with elephant movement, crop damage etc.	Absence of management of corridors though identified in MP as discussed in <b>Paragraph 2.2.3.</b>
8	Udhwa (MEE Report, 2015-17)	1. Final notification pending.	Was still pending as discussed in <b>Paragraph 2.2.1.</b>
		2. Exclusive wildlife range to be created for the management.	Not created and management was very poor as discussed in <b>Paragraph 2.4.1.3.</b>
		3. Adequate fund to be provided for creating infrastructure and effective management.	Sufficient funds were not provided for the management of the sanctuary as discussed in <b>Paragraph 2.4.3.3.</b>
9	PTR (MEE Report, 2022)	1. Relocation of villages situated in core area.	Relocation was yet to be done as discussed in <b>Paragraph 2.4.3.4.</b>
		2. Patrolling needs to be strengthened and communication network to be improved.	Patrolling and communication network was insufficient as discussed in <b>Paragraph 2.4.1.2.</b>
		3. Grassland management plan should be implemented.	Site specific grassland management plan was not implemented as discussed in <b>Paragraphs 2.3.2.</b>
		4. Steps to fill existing vacancies.	Vacancies still persisted as discussed in <b>Paragraph 2.4.1.3.</b>
		5. Re-stocking of the chital and sambhar population and re-introduction of the tiger can be implemented on priority.	Deficiencies in management of PTR and low prey base has been discussed in <b>Paragraph 2.4.3.4.</b>

**Appendix 2.3**  
(Referred to in paragraph 2.2.2, page 23)

**Details of Management Plans of PAs and its approval**

Sl. No.	Name of WLS	Period of notification	Period of MP	Date of approval of MP
1	Hazaribagh	May 1976	2005-06 to 2014-15	Not Available (NA)
			2020-21 to 2029-30	26/03/2020
2	Koderma	January 1985	2010-11 to 2019-20	NA
			2021-22 to 2030-31	18/01/2022
3	Lawalong	August 1978	2007-08 to 2016-17	NA
			2021-22 to 2030-31	28/01/2022
4	Gautam Buddha	September 1976	2008-09 to 2017-18	NA
			2021-22 to 2030-31	19/01/2022
5	Parasnath	August 1984	2020-21 to 2029-30	26/03/2020
6	Topchanchi	June 1978	Not prepared	
7	Dalma	July 1976	2000-01 to 2009-10	NA
			2020-21 to 2029-30	26/03/2020
8	Palkot	March 1990	2006-07 to 2015-16	NA
			2020-21 to 2029-30	16/12/2021
9	Mahuadanr	June 1976	2005-06 to 2014-15	NA
			2016-17 to 2025-26	20/12/2021
10	Palamau <sup>1</sup>	July 1976	2001-02 to 2010-11	NA
			2013-14 to 2022-23	02/11/2015
11	Udhwa Lake	August 1991	2005-06 to 2015-16	NA
			2021-22 to 2030-31	31/01/2022

(Source: Data of the Department and Management Plans)

<sup>1</sup> PTR includes Palamau WLS and Betla National Park for which no separate MP was being prepared.

**Appendix 2.4**  
(Referred to in paragraphs 2.2.3.3 and 2.4.7.1, page 27 and 69)

**Details of EDC formed vis-à-vis requirement**

Sl. No.	Name of sanctuary	Number of villages inside and around sanctuary creating biotic pressure on the PAs				Number of EDCs formed and functional, as of July 2023	
		As per Management Plan		As per the notification of ESZ			
		Inside	Around	Enclaved	Around		
		Formed	Functional				
1	Hazaribagh	70	NA	72	146	62	14
2	Koderma	17	31	18	31	22	Nil
3	Lawalong	64	126	64	126	64	15
4	Gautam Buddha	29	71	29	71	28	Nil
5	Parasnath	1	54	17	99	16	4
6	Topchanchi	NA	NA			17	Nil
7	Dalma	29	235	85	51	85	85
8	Palkot	90	101	90	101	79	79
9	Palamau <sup>2</sup>	199	207	382 <sup>3</sup>	0	185	57
10	Mahuadanr	72	25				
11	Udhwa Lake	6	24	6	24	13	Nil
Total		577	874	763	649	571	254
Grand Total		1,451		1,412			

NA- Not Available

<sup>2</sup> Number of villages situated in PTR includes villages of Palamau WLS and Betla NP.

<sup>3</sup> Single ESZ for PTR and Mahuadanr WLS and separate data of enclaved villages not given in the notification.

**Appendix 2.5**  
(Referred to in paragraph 2.2.6, page 31)

**Date of notification and area of Eco-Sensitive Zones**

Sl. No.	Name of Wildlife Sanctuary	Area of ESZ (in sq km)	Date of notification
1	Hazaribagh	573.86	1 August 2019
2	Lawalong	570.19	9 August 2019
3	Koderma	133.247	9 August 2019
4	Parasnath and Topchanchi	208.82	2 August 2019
5	Gautam Buddha	327.59	2 August 2019
6	Dalma	522.98	29 March 2012
7	Udhwa Lake Bird Sanctuary	56.94	1 August 2019
8	Palamau PTR <sup>4</sup>	1253.49	9 August 2019
9	Palkot	1287.16	9 August 2019

(Source: ESZ notification letters)

<sup>4</sup> Including Palamau WLS, Betla NP and Mahuadanr WLS.



## Appendix 2.6

(Referred to in paragraphs 2.3.1 and 2.4.3.1; page 33 and 51)

## Annual Plan/original budget, revised budget, release, expenditure and savings under forestry schemes during 2018-23

(₹ in crore)

Sl. No.	Name of schemes	Plan/ original budget	Revised budget	Release	Expenditure	Saving
<b>Central Assistance Scheme</b>						
1	Green India Mission	11.60	0.00	0.00	0.00	0.00
2	Project Elephant	20.50	16.44	12.77	8.83	3.94
3	Forest Fire Management and Prevention	28.00	20.54	14.59	11.13	3.46
4	Palamau Tiger Reserve (60:40)	46.90	57.60	30.64	29.88	0.76
5	Palamau Tiger Reserve (50:50)	23.90	17.84	11.67	11.19	0.48
6	National Bamboo Mission	31.55	26.55	11.25	4.85	6.40
7	Integrated Development of Wildlife Habitat	23.85	16.64	9.77	8.15	1.62
8	National Plan for Conservation of Aquatic Eco-systems	3.40	0.00	0.00	0.00	0.00
9	National Afforestation Program	3.30	0.00	0.00	0.00	0.00
10	Sub Mission on Agroforestry	32.38	23.39	9.40	5.97	3.43
	<b>Sub total</b>	<b>225.38</b>	<b>179.00</b>	<b>100.09</b>	<b>80.00</b>	<b>20.09</b>
<b>State Plan Schemes</b>						
1	Wildlife Conservation and Crime Control	100.25	99.95	99.86	93.49	6.37
2	Training, Publicity, Research and Evaluation	66.00	63.37	60.43	51.21	9.22
3	<i>Mukhyamantri Jan-Van Yojana</i>	42.00	39.91	37.91	30.11	7.80
4	Jharkhand State Climate Change Action Unit	3.05	1.77	0.81	0.00	0.81
5	Third Party Evaluation of Forestry Schemes	5.50	2.70	0.00	0.00	0.00
6	Afforestation and Soil Conservation on Notified Forest Land	452.70	549.46	501.99	475.42	26.57
7	Afforestation on Land outside Notified Forest	222.00	269.45	256.69	245.70	10.99
8	Digitization and Consolidation of Forest Boundary and Records	120.00	39.15	37.73	12.49	25.24
9	Modernisation and IT Enabled Services for Forest Officers	24.40	17.65	13.11	8.42	4.69
10	Permanent Nurseries and Seed Orchards	11.50	11.74	8.42	7.18	1.24
11	Development of Minor Forest Produce	44.00	41.00	40.05	35.63	4.42
12	Forest Management Facilities	190.44	195.98	144.77	139.41	5.36
13	Jharkhand Participatory Forest Management Project (WB aided)	5.19	5.19	5.07	1.69	3.38
14	Silviculture operation	286.84	334.99	323.42	295.29	28.13
15	Eco-Tourism	19.50	26.76	22.68	22.30	0.38
16	Urban Forestry Scheme	50.00	48.22	29.09	25.10	3.99
17	River Side Plantation	25.50	24.11	24.11	22.48	1.63
	<b>Sub total</b>	<b>1,668.87</b>	<b>1,771.40</b>	<b>1,606.14</b>	<b>1,465.92</b>	<b>140.22</b>
	<b>CAMPA</b>	<b>2,377.84</b>	<b>--</b>	<b>1,474.32</b>	<b>1,235.45</b>	<b>238.87</b>
	<b>GRAND TOTAL</b>	<b>4,272.09</b>	<b>--</b>	<b>3,180.55</b>	<b>2,781.37</b>	<b>399.18</b>

(Source: Appropriation Accounts and data of the Department)

**Appendix 2.7**  
(Referred to in paragraphs 2.3.2; page 33)

**Details of requirement, release and expenditure in the test-checked divisions during 2018-23**

Sl. No.	Name of Division	Name of PAs under jurisdiction	Scheme fund released and spent during 2018-23	
			Release (₹ in crore)	Expenditure (₹ in crore)
1	Hazaribagh	Hazaribagh	63.20	52.15
		Koderma		
		Lawalong		
		Gautam Buddha		
		Parasnath		
		Topchanchi		
	<b>Sub total</b>		<b>63.20</b>	<b>52.15</b>
2	Sahibganj	Udhwa (since 2021-22)	0.89	0.89
3	Project Elephant, Jamshedpur	Dalma	56.67	48.96
4	PTR North	PTR (Part)	122.84	117.04
5	PTR South	PTR (Part) and Mahuadanr	126.01	112.87
6	Ranchi	Palkot <sup>5</sup>	28.25	24.73
	<b>Total</b>		<b>397.86</b>	<b>356.64</b>

<sup>5</sup> Ranchi Wildlife Division has four Ranges. One Range looks after Palkot WLS. Under Central and State scheme, funds were released for Palkot WLS whereas under CAMPA it was released in the name of the Division. As such, release and expenditure against Palkot WLS includes total release and expenditure under CAMPA.

**Appendix 2.8**  
(Referred to in paragraph 2.3.3, page 34)

**Summary of Annual Accounts of PTCF for the period 2018-19 to 2021-22**

(₹ in lakh)				
Items	CCF & FD	DFO Core Area	DFO Buffer Area	Total
<b>Receipts</b>				
Opening bank balance as on 1 April 2018	109.69	(-) 0.95	8.74	117.48
Bank interest	12.29	0.87	59.54	72.70
From CCF	0.00	188.71	74.51	263.22
From DFO Core	63.05	58.42	0.00	121.47
From DFO Buffer	25.63	0.00	12.12	37.75
From RFO	0.00	33.93	0.00	33.93
Return of wages	0.00	0.00	1.41	1.41
Revenue (eco-tourism)	63.62	4.81	10.18	78.61
Donation	0.50	0.00	0.00	0.50
From GoJ	0.00	0.00	2604.80	2604.80
<b>Sub total</b>	<b>274.78</b>	<b>285.79</b>	<b>2,771.30</b>	<b>3,331.87</b>
<b>Payments</b>				
Bank charge/ POS machine	0.35	0.03	0.00	0.38
To CCF	0.00	63.05	25.63	88.68
To DFO Core	164.62	0.00	0.00	164.62
To DFO Buffer	74.51	0.00	0.00	74.51
To RFO	24.08	68.01	0.00	92.09
To wages	0.00	84.50	50.46	134.96
Maintenance of rest house	0.00	3.00	7.00	10.00
Salary to community mobilisation expert and eco-development co-ordinators	0.00	13.93	0.00	13.93
Purchase of vehicle	0.00	40.00	0.00	40.00
Audit fee	0.61	0.61	0.61	1.83
Refund to GoJ	0.00	0.00	12.84	12.84
<b>Sub total</b>	<b>264.17</b>	<b>273.13</b>	<b>96.54</b>	<b>633.84</b>
<b>Closing balance as on 31 March 2022</b>	<b>10.61</b>	<b>12.66</b>	<b>2,674.76</b>	<b>2,698.03</b>

**Appendix 2.9***(Referred to in paragraph 2.4.1.1, page 36 & 37)***(A) Details of boundary pillars required and available in PAs during 2018-23**

Sl. No.	Name of Division	Name of PAs under jurisdiction	Area of PAs under jurisdiction (in sq km)	Requirement of boundary pillars	Requirement of pillar per sq km	Boundary pillars as on March 2023	
						With DGPS survey	Without DGPS survey
1	Hazaribagh	Hazaribagh, Koderma, Lawalong, Gautam Buddha Parasnath and Topchanchi	731.19	18,313	25.05	1,750	3,200
2	Sahibganj	Udhwa	5.65	600	106.19	0	200
3	EP, Jamshedpur	Dalma	193.22	12,259	63.45	2,998	6,695
4	PTR North	PTR (Part)	1,193.18	4,423	14.73	0	1,850
5	PTR South	PTR (Part) and Mahuadanr		13,156		2,220	4,356
6	Ranchi	Palkot	183.18	24,697	134.82	2,350	0
	<b>Total</b>		<b>2306.42</b>	<b>73,448</b>	<b>31.85</b>	<b>9,318</b>	<b>16,301</b>

**(B) Details of boundary pillars constructed during 2018-23**

Sl. No.	Name of Division	Boundary pillars erected during 2018-23					Digitisation of boundary as per LULC 2021 (in numbers)	
		Funds allotted with target of pillars			Funds utilised with achievement		Villages inside PAs	Villages with digitised boundary
		Year	Target (in numbers)	Release (₹ in lakh)	Achievement (in numbers)	Expenditure (₹ in lakh)		
1	Hazaribagh	2019-20	2,000	80.94	500	20.23	194	180
2	EP, Jamshedpur	2019-20	3,000	121.41	1500	60.70	85	79
3	PTR South	2018-19	1,205	41.47	1135	36.06	266	151
4	PTR North	2018-19	250	8.60	Nil	Nil	104	87
5	Ranchi	Nil	Nil	Nil	Nil	Nil	81	79
6	Udhwa BLS	2019-20	200	10.00	100	5.00	Nil	Nil
		2020-21	100	7.08	100	7.08	Nil	Nil
	<b>Total</b>		<b>6,755</b>	<b>269.50</b>	<b>3,335</b>	<b>129.07</b>	<b>730</b>	<b>576</b>

## Appendix 2.10

(Referred to in paragraphs 2.4.1.2 and 2.4.2.3, page 38 and 48)

## (A) Deployment of manpower in PAs

Sl. No.	Name of the Division	PAs with the Division	Frontline staff deployed as of March 2023			Deployment of personnel during 2018-23		No. of watch towers in the PAs
			RFO	Forester	Forest Guard	Tracker	Manpower in fire squad	
1	Hazaribagh	Hazaribagh	3	2	30	32 to 35	11 to 15	12
		Koderma				10 to 15	10	4
		Lawalong				15 to 16	10	0
		Gautam Buddha				10 to 20	10	2
		Parasnath				5 to 10	5 to 10	0
		Topchanchi				5	5	2
2	Sahibganj	Udhwa	0	0	0	5 to 10	Nil	2
3	Jamshedpur	Dalma	2	0	20	39	6	12
4	PTR North	PTR (Part)	1	3	48	99	Nil	52
5	PTR South	PTR (Part)	2	1	63	121 to 210	Nil	59
		Mahuadanr						
6	Ranchi	Palkot	1	0	06	20	Nil	4
	<b>Total</b>		<b>9</b>	<b>6</b>	<b>167</b>	<b>361-479</b>		<b>149</b>

## (B) Availability and requirement of vehicles

Sl. No.	Name of the Division	Serviceable vehicles available as of March 2023		Additional vehicle required as per MP	
		Four wheeler	Two wheeler	Four wheeler	Two wheeler
1	Hazaribagh	7	17	13	76
2	Sahibganj	0	0		Not assessed
3	Jamshedpur	4	0	4	27
4	PTR North	38	100		Not assessed
5	PTR South				
		1	4	4	13
6	Ranchi	1	0	2	16
	<b>Total</b>	<b>51</b>	<b>121</b>	<b>23</b>	<b>132</b>

**Appendix 2.11**  
(Referred to in paragraph 2.4.1.2, page 39)

**Availability of wireless sets in the PAs as of March 2023**

Sl. No.	Name of the Division	PAs with the Division	Wireless sets available			Functional wireless sets as on March 2023	Additional requirement as per MP
			Static	Mobile/ vehicle mounted	Hand held (HH)		
1	Hazaribagh	Hazaribagh	3	2	7	Nil	Not assessed
		Koderma	1	1	10	Nil	Not assessed
		Lawalong	Not available				Not assessed
		Gautam Buddha	Not available				Not assessed
		Parasnath	Not available				Not assessed
		Topchanchi	Not available				Not assessed
2	Sahibganj	Udhwa	0	0	6	6	
3	EP, Jamshedpur	Dalma	3	0	40	3 static 23 HH	Not assessed
4	PTR North	PTR (Part)	14	4	14	32	Not assessed
5	PTR South	PTR (Part)	0	0	0		Not assessed
		Mahuadanr	2	0	6	2 static 0 mobile	Not assessed
6	Ranchi	Palkot	Not available				Assessed

**Appendix 2.12**  
(Referred to in paragraph 2.4.1.3 page 43)

**Details of training given to the Forest Guards posted in PAs during 2018-23**

Sl. No.	Name of the Division	Hazaribagh WLS	PTR (South)	PTR (North)	Dalma WLS	Ranchi WLD	Total
<b>Training to Forest Guards</b>							
1	Total strength	30	63	48	20	14	175
2	30 days Induction Training	30	50	38	20	0	138
3	6 months Field Training	0	0	0	20	0	20
4	30 days refresher Training	15	58	39	18	7	137
5	15 days refresher course	3	0	0	3	0	6
6	6 months training in the Departmental Training Centre	3	5	6	2	0	16
7	Micro Plan Preparation	0	0	5	0	0	5
8	Waste Management	0	0	3	0	0	3
9	Wildlife Crime Control	0	2	1	0	0	3
10	Tranquilisation and conflict mitigation	0	5	2	0	0	7
11	Tranquilisation Gun (WII Dehradun)	0	0	5	0	0	5
12	Tranquilisation & Radio Calling	2	0	2	0	0	4
13	Damodar Valley Corporation, Conservation of Land	0	0	2	0	0	2
14	Skill Development Programme in Wildlife Forensic	0	0	2	0	0	2
15	Vertical Training Capacity Building Workshop	3	0	11	0	0	14
16	Bamboo Plantation & Management (Dehradun)	0	6	5	0	0	11
17	Hospitality Etiquettes	0	2	1	0	0	3
18	Kazhiranga National Park Tour	2	0	4	2	0	8
19	EDC Training	0	0	2	0	0	2
20	Master Training in Forest Fire	2	0	4	2	0	8
21	Grassland Development	30	12	12	5	0	59
22	Wildlife Law enforcement & Combating Trafficking	0	6	5	3	0	14
23	Tribal JFMC members for National	0	0	3	0	0	3
24	Wildlife Crime	0	0	1		0	1
25	Forest Survey & Amanat	2	0	2	2	2	8
26	NTCA Training	0	0	2	0	0	2
27	Implementation Polygon Search	0	0	16	0	0	16

Sl. No.	Name of the Division	Hazaribagh WLS	PTR (South)	PTR (North)	Dalma WLS	Ranchi WLD	Total
28	Developing Capacities Management (Human Wildlife Conflict for frontline Forest Staffs)	2	0	2	3	2	9
29	Wildlife Crime Investigation, Legislation, Forensics & Tradecraft	0	0	0	0	1	1
30	Web GIS based MIS portal	4	6	0	2	12	24
31	Cyber Crime & Digital Forensics Responder Track (CCDF-RT) NCRB	0	0	0	2	2(Online)	2
32	Certified Nature Guide (EDC- member)	0	0	0	0	1	1
33	Wildlife Sniffer Dog Squad	0	4	0	0	0	4
34	Micro-plan formation for Joint Forest Management Committee	0	5	0	0	0	5
35	Integrated Landscape Management & Sustainable Tribal Development (Kolkata)	0	3	0	0	0	3
36	Skill Development Programme in Wildlife Forensic (Hyderabad)	0	1	0	0	0	1
37	Investigation of Wildlife Crime Cases (CDTI, Jaipur)	0	2	0	0	0	2
38	Simlipal National Park	0	4	0	2	0	6



**Appendix 2.13**  
*(Referred to in paragraph 2.4.1.4, page 44)*

**Status of investigation of forest offences in PAs**

Sl. No.	Name of Division	Area of PAs under jurisdiction (in sq km)	Forest offences during 2018-23		
			Number of offence reports submitted to the Court	Investigation reports submitted to the Court by division	Investigation pending at division
1	Hazaribagh	731.20	788	584	204
2	Sahibganj	5.65	12	2	10
3	Project Elephant, Jamshedpur	193.22	85	85	0
4	PTR North	1,193.18	81	13	68
5	PTR South		58	44	14
6	Ranchi	183.18	33	20	13
	<b>Total</b>	<b>2,306.43</b>	<b>1,057</b>	<b>748</b>	<b>309</b>

**Appendix 2.14**  
(Referred to in paragraph 2.4.1.4; page 44)

**Details of forest offences and action taken thereagainst**

Sl. No.	Nature of offence	Offence Report No/date	Case No./date	Area of PA involved (in Acre)	Volume of forest produce involved	Name of RF/PF	Compensation charged (in ₹)	Penalty charged (in ₹)	Rate of compensation (in ₹)	Investigation Report submitted (No/date)	Delay in submitting PR
		<b>Hazaribagh Wildlife Division</b>									
1	Encroachment	119/17.8.17	360/2017	0.04	NA	Sanjha	16,000	48,000	4,000/Decimal	848/27.4.23	5 y 8 m
2		126/13.10.17	417/2017	0.03	NA	Tamasi	15,000	45,000	-do-	851/27.4.23	5 y 6 m
3		131/3.12.17	605/2017	NA	NA	Samjha	16,000	48,000	-do-	853/27.4.23	5 y 4 m
4		844/15.9.16	981/2016	NA	NA	Aratu	60,000	1,20,000	Lump sum	665/5.4.22	5 y 5 m
5		854/3.10.17	360/2017	NA	20 Gathar	Lutu	14,000	28,000	700/Gathar	663/5.4.22	4 y 6 m
6		859/15.10.17	424/2017	NA	20 Gathar	Bundu	14,000	28,000	-do-	661/5.4.22	4 y 6 m
7		3104/7.12.18	1462/2018	NA	20 Gathar	Banwar	21,000	42,000	-do-	659/5.4.22	3 y 3 m
8		855/6.10.17	381/2017	NA	20 Gathar	Madandih	24,500	49,000	-do-	799/5.4.22	4 y 4 m
9		3111/13.8.19	1051/2019	NA	NA	Banwar	17500	52500	70/Gathar	1805/12.9.22	3 y 1 m
10		3115/24.10.19	1364/2019	NA	4 Gathar	Banwar	2800	5600	700/Gathar	1803/12.9.22	2 y 10 m
11		3110/13.8.19	1050/2019	NA	NA	Banwar	21000	63000	70/Gathar	1802/12.9.22	3 y 1 m
12		3113/14.8.19	1053/2019	NA	200 Gathar	Banwar	14000	42000	70/Gathar	1801/12.9.22	3 y 1 m
13		3112/14.8.19	1052/2019	NA	NA	Banwar	14000	42000	70/Gathar	1828/13.9.22	3 y 1 m
14		856/6.10.17	382/2017	NA	NA	Madandih	10500	31500	700/Gathar	1622/21.9.22	4 y 11 m
15		3295/22.8.16	1107/2016	NA	NA	Medhatri	20000	40000	Lump sum	2253/16.12.21	5 y 3 m
16	Mining	225/27.2.20	307/2020	1800 sqft	12 bag	Lomchanchi	18000	568800	NA	1522/10.8.22	2 y 5 m
17		229/13.5.20	454/2020	800 sqft	NA	Lomchanchi	80000	240000	NA	1521/10.8.22	2 y 1 m
18		220/16.7.20	66/2020	700 sqft	NA	Gamharia	70000	210000	NA	1520/10.8.22	2 y
19		234/16.7.20	651/2020	0.13	450 cft	Sirsirwa	106210	110710	NA	1519/10.8.22	2 y
20		236/29.8.20	753/2020	150 sqft	2 kg	Sirsirwa	40000	390000	NA	1518/10.8.22	1 y 11 m
21		223/15.2.20	234/2020	0.12	600 cft	Sirsirwa	104040	312120	NA	1517/10.8.22	2 y 6 m
22		221/17.1.20	97/2020	0.10	600 cft	Sirsirwa	87700	263100	NA	1516/10.8.22	2y 6m
23		226/7.4.20	418/2020	4800 sqft	NA	Lomchanchi	240000	720000	NA	1515/10.8.22	2 y 3 m
24		217/19.11.19	1695/2019	0.15	600 cft	Ambadaha	128250	385650	NA	1513/10.8.22	2 y 8 m
25		219/9.1.20	50/2020	300 sqft	2 kg	Inderwar	160000	480000	NA	1601/24.8.22	2 y 7 m
26		1342/6.6.20	1041/2020	2.00	NA	Tilra	120000	120000	NA	1712/30.8.22	2 y 1 m
27		1343/11.6.20	1079/2020	1.00	NA	Champanagar	60000	60000	NA	1705/30.8.22	2 y 2 m
28		1336/22.7.19	1686/2019	4.00	NA	Tilra	240000	240000	NA	1516/14.9.21	2 y 1 m
29		1337/26.8.19	2094/2019	4.00	NA	Tilra	240000	240000	NA	1517/14.9.21	2 y

Sl. No.	Nature of offence	Offence Report No/date	Case No./date	Area of PA involved (in Acre)	Volume of forest produce involved	Name of RF/PF	Compensation charged (in ₹)	Penalty charged (in ₹)	Rate of compensation (in ₹)	Investigation Report submitted (No/date)	Delay in submitting PR
30		1334/30.6.19	1428/2019	3.00	NA	Tilra	180000	18000	NA	1518/14.9.21	2 y 2m
31		1368/6.1.17	265/2017	NA	100 cft	Tilra	146050	146050	NA	1519/14.9.21	4 y 8 m
32	Tree felling	3163/25.1.21	116/2021	NA	68 cft	Pasagam	47264	94528	700/cft	430/28.2.23	2 y 1m
33		870/12.2.21	239/2021	NA	49 cft	Chano	38872	77744	800/cft	522/16.3.23	2 y 1m
34		121/24.8.17	388/2017	NA	18 tree	Gautam Buddha	36000	108000	2000/tree	899/27.4.23	5 y 8 m
35		130/21.11.17	595/2017	NA	40 pcs	Ahari	8000	24000	200/piece	852/27.4.23	5 y 5 m
36		1654/19.1.20	199/2020	NA	18 pcs	Donaikala	36000	36000	2000/piece	1307/4.7.23	3 y 5 m
37		1702/5.2.20	832/2020	NA	10 pcs	Gurudih	100000	100000	NA	1450/13.7.23	3 y 4 m
38		1600/30.4.20	836/2020	NA	60 pcs	Bundu	30000	30000	NA	1451/13.7.23	3 y 2 m
39		5725/25.9.20	1861/2020	NA	NA	Gardih	18000	36000	NA	1455/13.7.23	2 y 9 m
		<b>Project Elephant, Jamshedpur</b>									
40	Encroachment	1035/26.7.17	2259/2017	NA	NA	Vilaai Hill	Nil	Nil		795/30.7.19	2 y
41		1002/1.7.17	5902/2017	NA	NA	Pata	Nil	Nil	NA	1402/29.9.22	5 y 7 m
42		1077/20.10.18	3046/2018	NA	NA	Pardih	Nil	Nil	NA	1129/13.11.20	2 Y
43		1083/29.12.18	3619/2018	NA	NA	Pardih	Nil	Nil	NA	1130/13.11.20	1 y 10 m
44		1251/3.7.18	1973/2018	NA	NA	Pardih	Nil	Nil	NA	1516/28.9.21	3 y 3 m
45		1088/20.8.19	2430/2019	NA	NA	Pardih	Nil	Nil	NA	17/4.1.21	1 y 4 m
46	Mining	1036/8.12.17	6155/2017	NA	NA	Hamsada	Nil	Nil	NA	793/30.7.19	1 y 7 m
47		1037/9.12/17	6156/2017	NA	NA	Hamsada	Nil	Nil	NA	794/30.7.19	1 y 7 m
48		1101/3.11.18	623/2018	NA	NA	Kanderbaera	Nil	Nil	NA	543/10.6.20	1 y 7 m
49	Felling	1201/23.6.19	1768/2019	NA	NA	Balaluka	Nil	Nil	NA	544/10.6.20	11 m
50		1501/2.9.19	2566/2019	NA	NA	Jodisha	Nil	Nil	NA	589/24.6.20	9 m
51	Poaching	1327/14.7.19	2006/2019	NA	NA	Khokharo	Nil	Nil	NA	958/7.10.20	1 y 2 m
		<b>Territorial Division, Sahibganj</b>									
52	Fishing	3499/14.5.19	395/2019	NA	NA	Pataura lake	Nil	Nil	NA	2123/14.9.20	1 y 3 m

**Appendix 2.15***(Referred to in paragraphs 2.4.2.1, 2.4.2.2 and 2.4.2.4, page 46, 47 & 50)***Details of fire incidents and affected areas in PAs during 2018-23****(Area in Hectare)**

Name of PA/ Year	2018-19		2019-20		2020-21		2021-22		2022-23	
	No. of incidents	Affected area	No. of incidents	Affected area	No. of incidents	Affected area	No. of incidents	Affected area	No. of incidents	Affected area
Hazaribagh	DNA	19.33	DNA	61.41	93	60.47	81	47.21	68	45.00
Koderma	DNA	9.52	DNA	22.80	113	191.50	55	48.92	71	55.70
Gautam Buddha	DNA		DNA	5.40	150	223.47	25	45.68	31	39.32
Lawalong	DNA	0.27	DNA	0.33	28	2.49	55	6.64	40	40.41
Parasnath	DNA	29.23	DNA	23.67	18	38.30	22	92.7	49	94.37
Topchanchi	DNA		DNA		5	1.31	22	7.97	6	10.25
Dalma	DNA	0.48	DNA	0.02	DNA	46.02	DNA	29.30	DNA	51.92
Mahuadanr	17	34.73	9	10.80	DNA	DNA	DNA	DNA	11	13.71
PTR	100	130.53	70	196.21	781	295.70	553	1725.01	78	156.41
Palkot	Nil	0.00	Nil	0.00	29	94.39	11	5.64	46	12.70
<b>Total</b>	<b>117</b>	<b>224.09</b>	<b>79</b>	<b>320.64</b>	<b>1217</b>	<b>953.65</b>	<b>824</b>	<b>2009.07</b>	<b>400</b>	<b>519.79</b>

\* DNA- Data not available with the division.

**Appendix 2.16***(Referred to in paragraph 2.4.2.2, page 47)***Length of fire lines in PAs and its maintenance during 2018-23**

Name of the PA	Area of the PA in sq km	Length of fire lines (in km)	Fire line per sq km	Fire lines cleaned during the year (in km.)				
				2018-19	2019-20	2020-21	2021-22	2022-23
Hazaribagh	186.25	80.00	0.43	95.00	94.50	94.50	80.00	80.00
Koderma	150.63	40.00	0.27	41.00	41.00	41.00	Nil	40.00
Gautam Buddha	121.14	73.00	0.60	39.00	39.00	39.00	Nil	39.50
Lawalong	211.03	60.00	0.28	50.00	50.00	50.00	50.00	50.00
Parasnath	49.33	90.00	1.82	45.00	45.00	45.00	45.00	45.00
Topchanchi	12.82	18.00	1.40	18.00	18.00	18.00	18.00	18.00
Dalma	193.22	121.50	0.63	121.50	121.50	121.50	121.50	121.50
Palkot	183.18	180.00	0.98	22.56	22.56	22.56	25.97	25.97
PTR	1129.93	460.50 <sup>6</sup>	0.41	295.00	295.00	295.00	295.00	295.00
Mahuadanr	63.25	145.00	2.29	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>2,300.78</b>	<b>1,268.00</b>		<b>727.06</b>	<b>726.56</b>	<b>726.56</b>	<b>635.47</b>	<b>714.97</b>

<sup>6</sup> Including 60 km created in 2021-22 under CAMPA.

**Appendix 2.17**  
(Referred to in paragraph 2.4.3.2, page 52)

**Details of wild animal census in PAs**

Sl. No.	Name of the sanctuary	Area of sanctuary (in sq km)	2017-18	2018-19	2019-20	2020-21	Population density per sq km in 2020-21
1	Hazaribagh	186.25	1,050	1,204	1,377	1,495	8.03
2	Koderma	150.63	1,056	1,000	424	867	5.76
3	Gautam Buddha	121.14	798	873	361	800	6.60
4	Lawalong	211.03	404	309	358	437	2.07
5	Topchanchi	12.82	286	100	145	173	13.49
6	Parasnath	49.33	351	361	240	151	3.06
7	Palkot	183.18	669	2,089	2,957	4,333	23.65
8	Dalma	193.22	1,448	1,058	719	1,800	9.32
9	PTR <sup>7</sup>	1193.18	13,966	5,374	5523	9,826	8.24
	<b>Sub total</b>	<b>2,300.78</b>	<b>20,028</b>	<b>12,368</b>	<b>12,104</b>	<b>19,882</b>	<b>8.64</b>
10	Udhwa (Bird)	5.65	3,434	3,882	3,765	3,260	

<sup>7</sup> Included population in Betla NP, Palamau WLS and Mahuadanr WLS.

**Appendix 2.18**  
(Referred to in paragraph 2.4.3.2, page 53)

**Population of five common wild animals each, from schedule I to schedule III**

Sl. No.	Name of Wild Animal	Zoological Name	Schedule as per WPA	2017-18	2018-19	2019-20	2020-21
1	Leopard	Panthera Pardus Fusca	Schedule I	0	0	0	25
2	Wolf	Canis Lupas	Schedule I	75	70	51	139
3	Sloth Bear	Melursus Ursinus	Schedule I	170	199	101	164
4	Deer	Tragulus Momima	Schedule I	26	2	0	10
5	Elephant	Elephas Maximus	Schedule I	172	78	104	259
	<b>Sub total</b>			<b>443</b>	<b>349</b>	<b>256</b>	<b>597</b>
6	Langoor	Presbytis Ontellus	Schedule II	4,915	2,066	2,416	2,277
7	Monkey	Macaca Mulatta	Schedule II	7,339	4,338	4,419	5,931
8	Jackal	Canis Aureus	Schedule II	131	257	271	342
9	Mongoose	Herpestes spp	Schedule II	161	201	233	238
10	Fox	Vulpes Bengalensis	Schedule II	18	16	28	28
	<b>Sub total</b>			<b>12,564</b>	<b>6,878</b>	<b>7,367</b>	<b>8,816</b>
11	Chital	Axix Axix	Schedule III	2,151	412	336	4,716
12	Sambhar	Cervus Unicolor	Schedule III	86	92	71	122
13	Kotra	Muntiacus Muntjak	Schedule III	435	260	283	475
14	Wild Boar	Sus Scrofa	Schedule III	1,561	1,303	1,084	1,298
15	Hyena	Hyaena Hyaen	Schedule III	86	94	47	59
	<b>Sub total</b>			<b>4,319</b>	<b>2,161</b>	<b>1,821</b>	<b>6,670</b>

**Appendix 2.19**  
(Referred to in paragraph 2.4.4.1, page 58)

**Details of mortality of wild animals in PAs during 2018-23**

Sl. No.	Wildlife Divisions	Poaching	Accident (Road/ Train)	Electrocution	Natural/ illness/ still birth/ mutual fight	Others (dog bite, fall, unknown)	Total
1	Dalma	0	0	0	3 <sup>8</sup>	0	3
2	Hazaribagh	7 <sup>9</sup>	9 <sup>10</sup>	1 (Bear)	1 (Bear)	4 <sup>11</sup>	22
3	Palamau (North)	2 <sup>12</sup>	8 <sup>13</sup>	0	11 <sup>14</sup>	6 <sup>15</sup>	27
4	Palamau (South)	0	0	1 (Elephant)	3 <sup>16</sup>	1 <sup>17</sup>	5
5	Ranchi	0	1 (Bear)	0	0	0	1
	<b>Total</b>	<b>9</b>	<b>18</b>	<b>2</b>	<b>18</b>	<b>11</b>	<b>58</b>

<sup>8</sup> One mutual fight (elephant), one still birth (elephant) and one calf elephant.

<sup>9</sup> One nilgai, two cheetal, three wild boar and one pangolin.

<sup>10</sup> Road accident: three cheetal, one sambhar, three nilgai and two monkey.

<sup>11</sup> Two dog bite (cheetal) and two unknown (one wild boar and one hyena).

<sup>12</sup> One elephant and one wild boar.

<sup>13</sup> Seven deer (six in train accident) and one langoor.

<sup>14</sup> Two natural (one bison and one deer), one still birth (elephant), five illness (one elephant, one baby elephant, two bison and one nilgai) and three mutual fight (one captive elephant with wild elephant, one deer by hyena and one tigress by bison).

<sup>15</sup> Two dog bite (two deer), one fell in river (elephant), one fell in well (deer) and two unknown (elephant)

<sup>16</sup> Two natural (elephant) and one still birth (elephant).

<sup>17</sup> Fall from hill (elephant).

**Appendix 2.20**  
(Referred to in paragraph 2.4.4.2, page 60)

**Details of cattle health/Immunisation and cattle vaccinated during 2018-23**

Sl. No.	Division	PAs	Cattle pressure	Release	Expenditure	Cattle vaccinated	Vaccination done
1	Hazaribagh	Hazaribagh	33,000	2.04	0.48	Data not compiled	2019-20
		Koderma	Not surveyed	1.16	0.96	-do-	2018-19 and 2020-21
		Lawalong	-do-	2.04	2.04	-do-	2018-22
		Gautam Buddha	-do-	2.04	1.44	-do-	2018-21
		Parasnath	-do-	2.04	0.00	-do-	Nil
		Topchanchi	-do-	1.16	0.00	-do-	Nil
2	Sahibganj	Udhwa	-do-	0.00	0.00	576	2018-23 by AHD
3	Jamshedpur	Dalma	39,024	17.40	11.70	Data not compiled	
4	PTR North	PTR (Part)	1,62,520	3.75	3.75	-do-	
5	PTR South	PTR (Part)		4.35	4.35	11,572	2018-21 and 2022-23
		Mahuadanr	60,000	4.30	4.30	16,353	2018-21
6	Ranchi	Palkot	45,000	7.80	7.80	Data not compiled	
	<b>Total</b>		<b>3,39,544</b>	<b>48.08</b>	<b>36.82</b>		



**Appendix 2.21**  
**(Referred to in paragraph 2.5.1, page 71)**  
**Output/outcome indicators against schemes and their achievements during 2021-23**  
**Outcome Budget 2021-22**

Outcome Budget 2022-23							
Sl. No.	Scheme	Output/outcome Indicator	Target	Achievement	Outcome	Outcome Indicator	SDG Goal
			As per outcome budget 2022-23				
1	Wildlife conservation and crime control (SS)	Protection from poaching	Protection from poaching	The work is in progress	Reduced wildlife and forest offences in PAs	Reduced wildlife and forest offences in PAs	SDG-13 (Climate Action)
		Contraction of water holes and check-dams	Construction of water holes and check-dams				
		Clearing of fire line	Clearing of fire line				
2	IDWH	Construction of water conservation structure	Construction of water conservation structure	The work is in progress	Better habitat creation	Reduced Man animal conflict	SDG-15 (life on land)
		Wildlife counting	Wildlife counting		Increased soil and water conservation	Habitat improvement	
		Maintenance of GPS and camera	Maintenance of GPS and camera		Creation of man days in forest fringe areas		
3	Consolidation of forest boundaries	Construction of 80000 forest boundary pillars	Construction of 40000 pillars after DGPS survey	The work could not be carried out because non-execution of tender process	Better recognition of forest Boundaries	Better recognition of forest Boundaries	SDG-15 (life on land)
					Control of forest offence and encroachment	Control of forest offence and encroachment	
4	Eco-Tourism	Development of different tourist spot	development of basic infrastructure in Dalma and Betla WLS	The work is in progress	Basic infrastructure in Dalma and Betla	Increased tourists in the area	SDG-15 (life on land)
						Opportunities to the local people in eco- tourism	
5	Afforestation and soil conservation in notified area	100 Ha. QGS plantation	Maintenance and completion work in 37174.86 Ha. Advance work of plantation in 5808 Ha.	Maintenance and completion work done in 37174.86 Ha. Advance work of plantation of 5808 Ha is in progress.	Increase in quality and quantity of forest cover	Increase in quality and quantity of forest cover	SDG-15 (life on land)
		1000 HA. Soil conservation plantation			Increase in CO2 absorption	Increase in CO2 absorption	
		2000 Ha. RDF plantation			Increase in bio-diversity	Increase in bio-diversity	
		Completion and maintenance work			Creation of man days for local people	Creation of man days for local people	
					Increase in soil and water conservation	Increase in soil and water conservation	
6	Forest fire management	Maintenance of 2511 km fire line	Maintenance of 1422 km fire line	The work is in progress	Fire tracing along roads	Decrease forest fire incident	SDG-13 (Climate

Sl. No.	Scheme	Output/outcome Indicator	Target	Achievement	Outcome	Outcome Indicator	SDG Goal
			As per outcome budget 2022-23				
		3676 km fire tracing along roads	constitution of 61 QRT		Maintenance of existing fire line	Formation of QRT/JFMC/EDC	Action)
			Fire-fighting through 62 JFMC/EDC		Purchase of fire- fighting equipment	Training to 31 division	
			Training to 31 divisions		Better awareness of people		
7	Integrated Wildlife Management Plan	Integrated wildlife management in the areas which have been diverted from non-forestry purposes			Protection, restoration and sustainable use of ecosystem	Protection, restoration and sustainable use of ecosystem	SDG-15 (life on land)
		Improvement in wildlife habitat			Combat desertification and halt reserve land degradation and halt biodiversity loss	Combat desertification and halt reserve land degradation and halt biodiversity loss	
		Improvement in flora of the area			maintaining corridor of wildlife	maintenance of biodiversity of the area	
					reduce man animal conflict		
8	Project Elephant	Construction of water harvesting structure	construction of water harvesting structure	The work is in progress	construction of water harvesting structure	construction of water harvesting structure	SDG-15 (life on land)
		Constitution of anti-depredation squad	constitution of anti-depredation squad		constitution of anti-depredation squad	constitution of anti-depredation squad	
		construction of ponds	construction of ponds		construction of ponds	construction of ponds	
		purchasing of salt licks	purchasing of salt licks		purchasing of salt licks	purchasing of salt licks	
9	Project Tiger (50:50)	Payment to daily wagers	payment to daily wagers	The work is in progress	Increase in bio-diversity and carbon sequestration by natural forest	Better habitat for wildlife	SDG-13 (Climate Action) & SDG-15 (life on land)
		Maintenance of wireless devices and vehicles	maintenance of wireless devices and vehicles		Creation of man days in forest fringe areas	increase in number of tiger and other wild animals	
		Expenditure on secret information	Expenditure on secret information			decrease man animal conflict	
10	Project Tiger (60:40)	Exp. On establishment of strike forces and TPF	Exp. On establishment of strike forces and TPF	The work is in progress	Increase in biodiversity and carbon sequestration	to maintain and develop the wildlife habitat	SDG-15 (life on land)
		construction of toilet	construction of toilet		creation of man days	breeding of tiger and other wild animals.	

Sl. No.	Scheme	Output/outcome Indicator	Target	Achievement	Outcome	Outcome Indicator	SDG Goal
			As per outcome budget 2022-23				
		Procurement of hardware and wireless network	Procurement of hardware and wireless network			decrease incidence of wildlife man conflict	
11	Training, publicity, research and evaluation	Maintenance of 3 research nursery	Maintenance of 3 research nursery	The work is in progress	Training of urban and rural people	Training of urban and rural people	SDG-15 (life on land)
		Training of forest staffs/officers/JFMCs	training of forest staffs/officers/JFMCs		awareness and participation of people in plantation	awareness and participation of people in plantation	
		Publicity work	Publicity work				

### Outcome Budget 2022-23

Outcome Budget 2022-23									
Sl.	Scheme	Output/Outcome Indicator	Target	Achievement	Outcome	Outcome Indicator	Target	Achievement	SDG Goal
			as per outcome budget 2023-24					Up to 1/23	
1	Wildlife conservation and crime control (SS)	Protection from poaching	12 Nos.	12 Nos.	Reduced wildlife and forest offences in PAs	Better habitat management	12 Nos.	12 Nos.	SDG-15 (life on land)
		Contraction of water holes and check-dams							
		Clearing of fire line							
2	Silviculture (SS)	37.11 lakh plants to be maintained	28653 hectare	23153 hectare	Increase in forest cover	Increase in forest cover	28653 hectare	23153 hectare	SDG-13 (Climate Action)
		5.25 lakh saplings to be planted			More CO2 absorption				
					Increase in bio-diversity				
					Creation of man days for local people				
					Increase in soil and water conservation				
					Increase in flora and fauna				
3	IDWH	Construction of water conservation structure	11	0	Better habitat creation	Reduced Man animal conflict	11	0	SDG-15 (life on land)
		Wildlife counting			Increased soil and water conservation				
		Maintenance of GPS and camera							

Sl.	Scheme	Output/Outcome Indicator	Target	Achievement	Outcome	Outcome Indicator	Target	Achievement	SDG Goal
			as per outcome budget 2023-24					Up to 1/23	
4	Consolidation of forest boundaries	Better recognition of forest Boundaries	17000 Nos.	0	Better recognition of forest Boundaries	Increase in forest cover	17000 Nos.	0	SDG-15 (life on land)
		Control of forest offence and encroachment			Control of forest offence and encroachment				
5	Eco-Tourism	Basic Infrastructure development in Dalma and Betla	0	0	Basic Infrastructure development in Dalma and Betla	Increased tourist in the area	0	0	SDG-15 (life on land)
						Creation of opportunities to the local people			
6	Afforestation and soil conservation in notified area	Maintenance of 42282.86 Ha. planted area and advance work 8000 Ha.	50283 Hec.	42282 Hec.	Increase in quality and quantity of forest cover	Increase in forest cover	50283 Hec.	11000 (IFSR)	SDG-15 (life on land)
					Increase in CO2 absorption				
					Increase in bio-diversity				
					Creation of man days for local people				
					Increase in soil and water conservation				
7	Forest fire management	Maintenance of 2500km existing fire line	31	0	Fire tracing along roads	Maintenance of 2500km existing fire line	31	0	SDG-13 (Climate Action)
		QRT-42, JFMC/EDC- 46			Maintenance of fire line	QRT-42, JFMC/EDC- 46			
		Training to 31 division			Purchase of fire fight equipment	Training to 31 division			
8	Integrated Wildlife Management Plan	reduce man animal conflict	40 Nos.	25 Nos.	Providing water harvesting structure	No. of wildlife habitat improved due to availability of water and food	40 Nos.	25 Nos.	SDG-15 (life on land)
		Improvement in wildlife habitat			planting trees	Maintenance of wildlife corridor			
		Improvement in flora of			Maintaining corridor of	Maintenance of			

Sl.	Scheme	Output/Outcome Indicator	Target	Achievement	Outcome	Outcome Indicator	Target	Achievement	SDG Goal
			as per outcome budget 2023-24					Up to 1/23	
		the area			wildlife	biodiversity of the area			
					Reduce man animal conflict				
9	Grants-in-aid to PTCF	Maintenance and development of PTR, food to animals	1		maintenance and development of PTR, food to animals	increase awareness			SDG-15 (life on land)
		Development of grassland			development of grassland	increase biodiversity			
10	Project Elephant	Construction of water harvesting structure	5	5	construction of water harvesting structure	increase in water inside forest	5	5	SDG-15 (life on land)
		Constitution of anti-depredation squad			constitution of anti-depredation squad	better habitat for the wildlife			
		Construction of ponds			construction of ponds				
		Purchasing of salt licks			purchasing of salt licks				
11	Project Tiger (50:50)	Payment to daily wagers	1	1	Increase in bio-diversity and carbon sequestration by natural forest	Better habitat for wildlife	1	1	SDG-13 (Climate Action)
		Maintenance of wireless devices and vehicles							
		Expenditure on secret information							
12	Project Tiger (60:40)	Exp. On establishment of strike forces and TPF	90 Nos.	30 Nos.	Increase in biodiversity and carbon sequestration	Better habitat for wildlife	90 Nos.	30 Nos.	SDG-13 (Climate Action)
		Construction of toilet							
		Procurement of hardware and wireless network							
13	Training, publicity, research and evaluation	Maintenance of 3 research nursery	3 Nos.	3 Nos.	Maintenance of 3 research nursery	community awareness	3 Nos.	3 Nos.	SDG-15 (life on land)
		Training of forest staffs/officers/JFMCs			training of forest staffs/officers/JFMCs	capacity building of staff and officers			
		Publicity work			Publicity work				

**Appendix 3.1**  
(Referred to in paragraph 3.1.3, page 83)

**Details of Public notices, regarding rates of security deposits, issued by ZP, Bokaro**

Date	Minimum Security Deposit per shop/floor/entire mall	Sum of Security Deposit	Monthly Rental for entire mall	Yearly Rental for entire mall
12-02-2018	Entire mall	₹3,00,00,000	₹3,00,000	36,00,000
28-02-2019	₹3,00,000 to ₹6,00,000 each shop	₹2,68,00,000	-	-
29-05-2019	₹2,00,000 to ₹3,00,000 each shop	₹1,48,00,000	-	-
10-07-2019	₹1,00,000 to ₹2,50,000 each shop	₹89,00,000	-	-
26-07-2019	₹75,000 to ₹1,50,000 each shop	₹66,00,000	-	-
07-09-2019	₹50,000 to ₹1,00,000 each shop	₹43,50,000	-	-
26-06-2020	₹50,000 to ₹1,00,000 each shop	₹43,50,000	-	-
04-01-2021	₹50,000 to ₹1,00,000 each shop	₹43,50,000	₹1,42,973	17,15,670
15-06-2022	₹50,000 to ₹1,00,000 each shop	₹43,50,000	₹1,42,973	17,15,670
17-10-2022	₹12,00,000 to ₹16,00,000 each floor	₹43,50,000	₹1,42,973	17,15,670
26-07-2023	Entire mall	₹20,00,000	₹1,42,973	17,15,670
20-09-2023	Entire mall	₹12,00,000	₹1,42,973	17,15,670
27-10-2023	Entire mall	₹10,00,000	₹1,42,973	17,15,670