

F. No. 4-1(14)/2021-PT
Government of India
Ministry of Environment, Forest and Climate Change
Project Tiger Division

B-1 Wing, 7th Floor,
Pt. Deendayal Antyodaya Bhawan,
CGO Complex, Lodhi Road,
New Delhi – 110003
Dated the 30th June, 2021

To,

The Pay & Accounts Officer,
Ministry of Environment, Forest and Climate Change,
New Delhi.

Sub: **Centrally Sponsored Plan Scheme 'Project Tiger' Administrative Approval for funds release to Periyar Tiger Reserve, Kerala during 2021-22 –reg.**

Sir,

I am directed to convey the administrative approval of the competent authority to the continuance of the Scheme 'Project Tiger' in Periyar Tiger Reserve, Kerala at the cost of **Rs. 742.69 Lakhs (Rupees Seven hundred Forty Two lakhs Sixty Nine thousand Only)** as per details given in the table at Annexure. Of the total cost of the Scheme, **Rs. 216.54 Lakhs (Rupees Two Hundred Sixteen lakhs Fifty Four thousand Only)** being the recurring cost of the scheme will be shared on 50:50 basis by the **Government of India** and **Government of Kerala**. The remaining cost of the scheme will be treated as 60% Central Assistance by the Government of India and 40% assistance by the State Government of Kerala.

2. I am also directed to convey the sanction of the President to the payment and release of an amount of **Rs. 100.58 lakhs (Rupees One hundred lakhs Fifty Eight thousand Only)** as the 1st installment of Central Share towards the Grants-in-aid to Government of Kerala during the current financial year 2021-22. The balance amount of the Central Assistance will be released in due course after a review of the progress of expenditure/work is undertaken.

3. The grants-in-aid will be regulated in accordance with the provisions contained in the memorandum of the Centrally Sponsored Project Tiger Scheme. The Grants-in-Aid is also subject to the Chapter 9 of the General Financial Rules 2017, as amended from time to time, read with the Government of India's decision incorporated there-under, and any other guidelines which may be issued in this regard, and in particular to the following conditions:-

- (i) All relevant information and documents/certificates as required under GFR 209(I) have been received.
- (ii) The pattern of assistance of rules governing such grants-in-aid have received the approval of the Ministry of Finance, as required under Government of India decision No. (1) under DFPR-Rules 20.
- (iii) Terms and conditions of the service of the employees employed in the **Periyar Tiger Reserve** under the Project Tiger Scheme are not higher than those applicable to similar categories of employees of Central Government and where it is not in accordance with above, the relaxation of Ministry of Finance have been obtained for such discrepancies as required under GFR 230(12)(I).



- (iv) Assets acquired wholly or substantially out of Government Grants shall not be disposed off without obtaining the prior approval of the sanctioning authority of Grants-in-aid.
- (v) The **Government of Kerala** agrees to make reservations for Scheduled Castes and Scheduled Tribes or OBC in the posts or services under its control on the lines indicated by Govt. of India.
- (vi) The accounts of the **Periyar Tiger Reserve** shall be audited by C&AG or by any person authorized by him on his behalf in accordance with the provisions laid down in Section 14 of the C&AG (DPC) Act, 1971 as amended from time to time.
- (vii) The accounts of the Project Tiger Scheme shall be open for inspection by the sanctioning authority and audit, both by the Comptroller & Auditor General of India under the provision of C&AG (DPC) Act, 1971 and internal audit party by the Principal Accounts Office of the Ministry whenever it is called upon.
- (viii) The Utilization Certificate against the earlier funds released under Grants-in-aid have been received and accepted by the competent authority.
- (ix) Government of Kerala in respect of **Periyar Tiger Reserve** may furnish their performance-cum-achievement report on or before 31.3.2022.
- (x) **Periyar Tiger Reserve** will spend Grants-in-aid exclusively in pursuance of the objectives envisaged in rules/memorandum of the Centrally Sponsored 'Project Tiger Scheme' and for the purpose it is being sanctioned.
- (xi) Grants-in-aid to **Government of Kerala** is subject to the Economy Instructions issued from time to time by the Ministry of Finance or by the Competent Authority.
- (xii) Grants-in-aid shall be utilized before the end of the current financial year 2021-22 and unspent balance, if any, will be refunded by **Government of Kerala** to the **Govt. of India**.
- (xiii) Government of Kerala in respect of **Periyar Tiger Reserve** will maintain a separate account and will present their annual accounts in the standard format as required under GFR 230(5).
- (xiv) Grants-in-aid shall be utilized for **Periyar Tiger Reserve** strictly as per the Memorandum of Understanding (MOU) between the Ministry of Environment, Forests and Climate Change, acting through the National Tiger Conservation Authority, Field Director (**Periyar Tiger Reserve**) and **Government of Kerala**.
- (xv) Monitorable outcomes on the item of works contained in the sanction letter both in physical and financial terms are required to be furnished in the monthly report regularly. Compliance status on Tripartite Memorandum of Understanding is required before submission of additional or ensuing year's Annual Plan of Operation (APO).
- (xvi) **The expenditure should be limited to the amount released and in no case should be done in anticipation of further release by the Ministry.**
- (xvii) The payments of daily wagers should be done through account transfer / account payee Cheques only duly linked with Aadhar Number.
- (xviii) It may please be ensured that there is no duplication of nature and items of work being proposed in the same area under the Centrally Sponsored Scheme of Project Tiger and other Centrally Sponsored Schemes such as Project Elephant, Eco-development and IDWH Schemes etc.
- (xix) The cost estimates worked out by the Field Director should be based on approved schedule of rates of the State Government, with due approval of the competent authority.
- (xx) Approval of the competent authority be obtained and acceptance of UC may be ensured by PD.
- (xxi) The expenditure is incurred as per the allocation of funds.
- (xxii) Payments are made by bank transfer and no cash payment is to be made.
- (xxiii) Funds for POL / maintenance of vehicles would be admissible only for the vehicles purchased from CSS funds.
- (xxiv) **Funds will not be diverted for any item other than specified herein.**
- (xxv) **Funds to be spent only on items approved in Tiger Conservation Plqan (TCP).**



- (xxvi) Compensation for loss due to wildlife is to supplement the State Government fund as per the rules of State Government.
- (xxvii) GFR is followed by implementing agency alongwith the economic instructions issued by Government of India from time to time.
- (xxviii) Satellite photo with date and latitude and longitude nodes after completion of work depicting the work carried out before and after the work.
- (xxix) Evidence of deposit of TDS/Service Tax in case of contract payment and CST in case of leviable goods are sent along with UC.
- (xxx) In case of employment through contract, copy of PF & ESI contributions of employees shall be obtained wherever applicable.
- (xxxi) All measurable outcome of this grant must be mentioned in the sanction order and UC is to be submitted as prescribed in GFR 2017 – Form GFR 12-C.
- (xxxii) If the implementing agency does not use the fund for the purpose for which it was given, it has to refund the same with interest.
- (xxxiii) There should not be any overlapping of activities under the projects with the activities of ongoing schemes under CSS/CS/State Government Scheme.
- (xxxiv) The sanction order must mention measurable physical parameters and all measurable parameters are to be adhered to.
- (xxxv) The fixed asset created out of this grant shall not be disposed off without concurrence of this Ministry.
- (xxxvi) A separate bank account shall be opened for the purpose and the account shall be open for audit by Central Government or C&AG.
- (xxxvii) All guidelines under the project is to be followed scrupulously.
- (xxxviii) The UC with physical progress report and satellite photo with physical deliverable with date and latitude – longitude coordinates before and after completion of work be obtained of each tiger reserve and uploaded on the website of the implementing agency as well as the Ministry for public access.
- (xxxix) The measurable outcome under the project (quantified) in terms of number of tigers in tiger reserve, eco-tourism in tiger reserve, %age decrease in man-animal conflict etc., may also be submitted in the progress report.
- (xl) All labour payments strictly by Direct Benefit Transfer (DBT).
- (xli) **All guidelines of Project Tiger Schemes are followed by concerned tiger reserve and Expenditure Evaluation Report on the expenditure incurred viz. proposed activities and result achieved may be furnished before release of 2nd installment.**
- (xlii) **The gate -money collected is made fully available to Tiger Foundation of the Tiger Reserve/ Protected Area/ National Park/Sanctuary by State Government as per rule and past years dues are paid by 30th September.**

4. As the annual budget of the Scheme is approved by the Central Government, the Government of Kerala is not required to furnish bond and sureties, in accordance with the Ministry of Finance O.M. No. 14(1)-EII (A)/ 64 dated 23.6.1965.

5. The payment sanctioned above is subject to the adjustment on the basis of the audited figures of expenditure. Other terms and conditions of the payment are as under:

- (a) The grant is in accordance with the pattern of financial assistance approved by the Ministry of Finance.

 11/11/2017

(b) The grant sanctioned is subject to the adjustment on the basis of the terms and conditions approving the scheme.

6. No deviation from the approved items of expenditure as enumerated in the annexure shall be made without prior concurrence of the Government of India. The guidelines of National Tiger Conservation Authority should be fully adhered to. The Chief Wildlife Warden and the Principal Chief Conservator of Forests of the State Government should be directed to ensure that the field works are in accordance with the Tiger Conservation Plan and the Annual Plan of Operation by the field inspections from time to time.

7. In accordance with the revised procedure, the Central Accounts Section, Reserve Bank of India, Nagpur, may kindly be advised to pass on credit to the books of the State Government of Kerala under intimation to this Department.

8. The expenditure incurred is adjustable to the Demand No. 25 (Ministry of Environment, Forest and Climate Change) under the following heads during the Financial Year 2021-22 :

Scheme	Budget Head	Amount (Rs. in lakhs)
Centrally Sponsored Scheme of Project Tiger	3601.06.101.02.01.31 (Gen)	70.58
Centrally Sponsored Scheme of Project Tiger	3601.06.789.02.01.31 (SCSP)	20.00
Centrally Sponsored Scheme of Project Tiger	3601.06.796.02.01.31 (TSP)	10.00
Total		100.58

9. This issues under the powers delegated to the Ministry and with the concurrence of Integrated Finance Division vide Dy. No. 159359/SS&FA (PG) dated 29.06.2021.

Yours faithfully,



(Rajendra G. Garawad)
Deputy Inspector General of Forests (PT)

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Copy to:-

1. The Secretary (Forests), Govt. of Kerala. A copy of the detailed sanction letter issued by the State Government in respect of this scheme for 2021-22 may kindly be furnished at the earliest.
2. The Secretary (Finance), Govt. of Kerala.
3. The Principal Chief Conservator of Forests / Chief Wildlife Warden, Govt. of Kerala.
4. The IGF, NTCA RO, Bengaluru.
5. The Field Director, Periyar Tiger Reserve, Kerala.
6. The Accountant General, Kerala.
7. The Director of Audit, Scientific Department, AGCR Building, IP Estate, New Delhi.
8. Forest Finance Division, MoEF&CC, New Delhi.
9. Plan Finance Division (PF-II), Ministry of Finance, New Delhi.
10. Guard file/Spare copies.

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Annual Plan of Operation (Periyar Tiger Reserve) under Centrally Sponsored Scheme – Project Tiger for 2021-22

(Rs in Lakhs)

S. No.	Item of work	Para No.		Location / GPS coordinates	Previous Year Details				Current Year Proposal				Justification	
		CSS-PT Guidelines	TCP		Physical		Financial		Location / GPS coordinates		Physical Target	Unit Cost		Amount (Financial Target)
					Target	Achievement	Target	Achievement						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
NON-RECURRING (NR)														
CORE														
1	Procurement of arms and ammunition	16.1.13	10.1.7.11	9°28'44.73"N 77°14'35.66"E	400 Nos	400 Nos.	1	1	9°35'17.00" N 9°27'27.5"N 9°25'33.8"N	77°10'40.00" E 76°56'41.4"E 76°56'49.8"E	400 Nos	.000125/ Nos	0.50	Arms are used for self defence of staff during patrolling. It is proposed to purchase 200 nos of ammunition (rounds for 12 bore pump action gun)
2	Procurement of field gear, and equipment	16.1.21	10.1.3	9°28'44.73"N 77°14'35.66"E	100 Nos	100 Nos.	5	5.1	9°28'44.73"N	77°14'35.66"E	20 Nos	0.10/nos	2.00	Proposed for provide field gears to frontline staffs who do patrolling in the tough terrain
3	Procurement of field shoes to 100 frontline staffs for patrolling	16.1.21	10.1.3						9°27'27.5"N 9°25'33.8"N	76°56'41.4"E 76°56'49.8"E	100 Nos	0.02 / Nos	2.00	Proposed for provide field shoes to 100 frontline staffs who do patrolling in the tough terrain.
4	Providing support to tiger reserves for raising, arming and deploying Special Tiger Protection Force (STPF).	16.1.1	10.1.4.1						09°34'17.236' N 09° 26' 53" N 9°27'27.5"N 9°25'33.8"N	077°17.15' E 077° 15' 30" E 76°56'41.4"E 76°56'49.8"E	2941 MM	0.0085/ mm	25.00	PTR shares an interstate boundary of approx. 90 km with Tamil Nadu and it shares 220 km PA boundary with Idukki, Kottayam and Pathanamthitta revenue districts and most of the area is thickly populated. Constant vigil and protection camps are highly essential in all these areas to ensure protection of wildlife in the PA. Periyar West Division shares boundary with the largest territorial division of Kerala,Ranni, also shares boundary with Kottayam territorial division. This continuous forest area requires special attention. By making use of special protection team
5	Establishing & providing basic amenities to patrolling camps/chowkis/staff quarters etc.	16.1.3	10.1.7.1						09 18' 13.50" N 09031'0.34.3" N 090 30' 35.8" N	077 14' 43.20" E 0770 06'44.7" E 770 05' 07.7" E	2 Nos	LS	14.00	Proposed to establish patrolling camp at 40 th plantation at Vallakkadavu range and Pachanpallim at Periyar Range
6	Organizing vehicular patrolling by constituting squads (Tiger Protection Force)(comprising of field staff, laborers and police or SAF or ex-army personnel or home guards with wireless handset and paraphernalia for apprehending offenders, apart from prescribing a patrolling calendar for the	16.1.6	10.1.7.9		4500MM	3412MM	37.5	29	09° 35' 37.8" N 09° 34' 27.5" N 09° 31' 58" N 09° 23' 43" N 77°11'20.00" N 09°32'30" N 9°27'27.5"N 9°25'33.8"N	077°18' 06.3" E 077° 20' 15.3" E 077° 22' 12 E 9°32'30.00" E 09° 34' 05.9" E 77° 14' 27.3" E 77°10'.21"E 76°56'41.4"E 76°56'49.8"E	2765 MM	0.0085/ MM	23.50	The protection strategy identified and approved in the TCP warrants effective perambulation with mobile squads. PTR East: 15 MM * 26 Days * 12 Months = 4680 MM 2 MM * 12 Days * 1 Months = 24 MM PTR West - 1764 MM Apart from regular staff, watchers from the adjoining hamlets are also hired to make the patrolling more efficient. Tiger Reserve having sufficient interior perambulation routes such as kuccha roads , trek paths,
7	Maintenance of patrolling roads	16.2.5	10.1.7.6						N: 09 34' 17.47" 9°27'27.5"N 9°25'33.8"N	E: 077 15' 56.75" 76°56'41.4"E 76°56'49.8"E	206.67 Km	0.15/ Km	31.00	..+

S. No.	Item of work	Para No.		Location / GPS coordinates	Previous Year Details				Current Year Proposal				Justification	
		CSS-PT Guidelines	TCP		Physical		Financial		Location / GPS coordinates		Physical Target	Unit Cost		Amount (Financial Target)
					Target	Achievement	Target	Achievement						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
8	Fire management activities	16.2.14	7.2.2.2.3						9°36'10.6"N 9°36'10.5"N 9°36'10.6"N 9°27'53"N 9°34'36"N 9°27'29.8"N 9° 29' 47.1"N 9° 37' 56"N 9°27'27.5"N 9°25'33.8"N	77° 10'28.3"E 77° 10'28.5"E 77° 10'28.3"E 77° 15'54" E 77° 20'2"E 77° 16'0.02"E 77° 08'534"E 77° 08' 40"E 76°56'41.4"E 76°56'49.8"E	56 Km	0.4/km	22.50	Wild Fire is major management issue in Periyar Tiger Reserve. The dry months from January to April (till pre-monsoon showers) are highly fire prone. Majority of fires here are ground fires. Grasslands and eucalyptus plantations are highly fire prone. Fire from these areas often creep into the evergreen & semi evergreen forest areas lying contiguous to these areas. Hence fire management strategies such as firelines & fire breaks are inevitable to prevent and control uncontrolled fire and consequent loss of
9	Establishing & Mtce. of wildlife Monitoring system.	16.2.27	7.2.2.2.9						9°28'44.73"N 9°27'27.5"N 9°25'33.8"N	77°14'35.66"E 76°56'41.4"E 76°56'49.8"E	10 Nos	.1/nos	1.00	Replacing damaged and outdated M Stripe Mobiles & Proposed to purchase additional SD cards, mobile pouch and power bank for 75nos of mobiles used in monitoring using M stripes. Tiger Reserve is using M-stripes application for the total effective management. This android application which has three distinct modules namely Patrol module, Ecological module and Conflict module. The Patrol module inter-alia is a mechanism to ensure accountability of front line staff vis-à-vis antipoaching efforts and is useful for the tiger reserve management to strengthen the protection activities. Now the
10	Procurement of tranquilizing equipment, darts, drugs, maintenance of rescue vehicles.	16.4.5	10.1.7.11, 12.3						9°28'44.73"N 9°27'27.5"N 9°25'33.8"N	77°14'35.66"E 76°56'41.4"E 76°56'49.8"E	LS	LS	3.50	Proposed to purchase tranquilizing medicines antidotes, anti biotics, interavenous fluids, analgesics, anti inflammatories, anti pyretics anti lotions and ointments, dewormers and antiparasitics and other veterinary care equipment. The vehicles used in rescue operations need periodic maintenance to ensure hazzle free
11	Habitat improvement measures.	16.10.5	7.2.2.3.1		20ha		1		9°19'35.34"N 9°27'38.87"N 9°26'57.79"N 9°34'18.17"N 9°23'50.56"N 9°28'35.49"N 9° 28'48.4"N 9°32' 30.1"N 9°32' 69.5"N 9° 32' 079"N 9°35'59.40"N 9°36'14.46"N 9°36'6.25"N 9°36'18.79"N 9°35'42.90"N 9°33'0.47"N 9°32'59.88"N 9°33'57.13"N 9°34'5.83"N 9°33'33.24"N 9°27'27.5"N 9°25'33.8"N	77°17'55.90"E 77°17'47.90"E 77°18'20.62"E 77°16'21.44"E 77°15'35.08"E 77°16'48.33"E 77° 8'72.1"E 77° 06'49.91"E 77° 08' 59.9"E 77° 08' 25.1"E 77°11'4.27"E" 77°10'50.67"E" 77°11'4.67"E" 77°11'6.70"E" 77°10'58.30"E 77°12'1.33"E 77°12'16.04"E 77°13'30.14"E 77°13'30.14"E 77°11'13.22"E 76°56'41.4"E 76°56'49.8"E	333 Ha	0.15/ Ha	25.00	Habitat improvement activities aims at managing prime habitats and water sources of the tiger reserves. The swamps and grasslands adjoining woodlands are gradually taken over by woody species. It is essential to arrest the succession to retain the habitat of herbivores. Maintenance of Vayals (swamps), desilting of waterholes, controlled burning, uprooting and removal of trees invading the grassland etc. measures are the main activities.

S. No.	Item of work	Para No.		Location / GPS coordinates	Previous Year Details				Current Year Proposal				Justification	
		CSS-PT Guidelines	TCP		Physical		Financial		Location / GPS coordinates		Physical Target	Unit Cost		Amount (Financial Target)
					Target	Achievement	Target	Achievement						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
12	Gathering of secret information and related activities	16.1.12	10.1.10						9°28'44.73"N 9°27'27.5"N 9°25'33.8"N	77°14'35.66"E 76°56'41.4"E 76°56'49.8"E	LS	LS	0.60	Information network is essential for the successful prevention of crime and timely interventions. A well organised intelligence network is a pre requisite for preventing illegal activities. Rewards given to informers will certainly help in obtaining crucial
13	Provision of Project Allowance to staff (all categories) of Project Tiger (providing project allowance to Ministerial staff is a new component) (non recurring).	16.15	12.7						9°27'27.5"N 9°25'33.8"N	76°56'41.4"E 76°56'49.8"E	486		39.68	Field Director @2000*12months ACF & DD @1500 *12Months AA, HA, Sr.clerk-5 , Senior grade Typist-1, Confidential Assistant-1, Driver- @1000*12months-Office Attendants @700*3*12 &PTS @400*12*1 (Including 2 months arrear of 2019-20) Project allowance for staff. DD-1 AFD-1, 2*24 months*1500=36000 AFVO-1, AA-1, J S -1, H A -1, R F O-6,Sr.clerk-7 ,Selection grade Typist-1,Sr.gr.Driver-1,compiler-1 , CA-1,WLA-1,Dy. RO-4 26*1000Rs*12month=312000 SFO-37, 37nos*Rs900*12months=399600 BFO-147, Clerk-5, Typist-1, Driver-3, Boat Driver-5, , 161nos*Rs700*12months=1352400 Peon-8, ,Boat Lascar-1, Boat watcher-2, Boat cleaner-2, Tribal watcher-70, Forest watcher-22, Part time sweeper-3 108nos*rs400*12months=518400 Deputy Director-1-1x1500x12=18000, RFO-2-2x1000x12=24000, JS-1-1000*12*1=12000
14	Provision for ration allowance to field staff	16.16.1	12.7						9°28'44.73"N 9°27'27.5"N 9°25'33.8"N	77°14'35.66"E 76°56'41.4"E 76°56'49.8"E	9060 Nos	.00087/ Nos	8.00	For providing camp ration to front line staff. Deputy Ranger-3, SFO-37, BFO-147, TW-70, Forest watcher-26,Protection Mazdoors-250 throughout the year For providing ration to front line staff RFO-2, Dy.RFO-3, SFOs- 18 , BFOs-64, Forest Watcher- 7, Tribal Watcher-20, Daily waged protection mazdoors- 60. throughout the year. Major part of the tiger reserve is very remote with hostile terrain. Staff are staying
15	Supply of first aid kit	16.16.3	12.3						9°30'25.68"N 9°25'44.93"N 9°34'17.236"N 9 29' 06.2" N	76°57'19.51"E 77°24'28.55"E 77°17'15"E 77°15' 43"E	4 Nos	0.125/ Nos	0.50	For providing first aid kit, stretcher and basic medical equipments to 6nos of interior camp shed
16	Deployment of the notified tribes in foot patrolling for protecting wildlife	16.6.1	10.1.11		1960MM	1000MM	8.500		N 09° 28' 55.6" N 09° 31' 8.9" N-09°34'36.1" N9°32'30.00"N N9° 34' 05.9" N 09°32'30" 9°27'27.5"N 9°25'33.8"N	E 077° 16' 32.9" E 077° 18' 54.6" E-077° 07'61.5" E77°11'20.00" E 77° 14' 27.3" E 77°10'.21" 76°56'41.4"E 76°56'49.8"E	4770 MM	0.0085/ MM	41.00	Engaging tribes and other forest dependents in patrolling is one of the best protection strategy. Their traditional knowledge on forest contribute much to the protection of wildlife. Engaging tribes for foot patrolling. PTR East-7MM*26days*12months=2184mm 14MM*12days*6months=1008mm PTR West - 7MM*26days*3months=546mm 12MM*12days*6months=864mm
Sub Total (Non-Recurring- Core)												239.78		
BUFFER														

S. No.	Item of work	Para No.		Location / GPS coordinates	Previous Year Details				Current Year Proposal					Justification
		CSS-PT Guidelines	TCP		Physical		Financial		Location / GPS coordinates		Physical Target	Unit Cost	Amount (Financial Target)	
					Target	Achievement	Target	Achievement						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	Deployment of anti elephant squads.	16.1.15	10.1.2		2200MM	1246mm	15.6	10.59	9° 34' 18.2"N 9° 35' 37.8"N 9° 31' 28.7" N 9°32'30.00"N 9° 34' 05.9"N 9°32'30"N 9°27'27.5"N 9°25'33.8"N	77° 16' 22.2"E 77° 18' 06.3"E 77° 06' 55"E 77°11'20.00"E 77° 14' 27.3"E 77°10'.21"E 76°56'41.4"E 76°56'49.8"E	3881 MM	0.0085/ MM	33.00	About 5 lakh pilgrims visit sabarimala every year by walking through the traditional routes through the forests alone. Accidents due to elephant attack occur every year in this route. In order to ensure safety of pilgrims, deployment of elephant squads is very much essential. PTR West- 1204 MM
2	Mtc. Of APC/ patrolling camps/chowkis/ buildings including maintenance of the structure and other basic amenities	16.1.4	10.1.2						09° 36' 14.5" N 9°32'36.004"N 09° 35' 25.0" N	077° 10' 52.17" E 77°10'.042" E 077° 11' 49.2" E	2 Nos	6.0/ Camp	11.50	Establishing of patrolling camps at three locations.Thekkady, Edappalayam and Brandippara. These are crucial locations for camping of the staff. The proposed work is for establishing camping facility. With the induction of lady staff, it has become an absolute necessity to have toilets and kitchen facilities in the APCs. Jollymala APCs in Azhutha range is situated in a vulnerable area, staff are staying this campshed throughout the year for field permabulation. This campshed needs some urgent facilities like construction of toilet and kitchen. With the induction of lady staff, it
3	Payment of compensation for cattle lifting, death of human beings and crop predation due to wild animals.	16.4.1	17.2.1						9°28'44.73"N	77°14'35.66"E	LS	LS	0.50	Timely payment of compensation to damages caused by wild animals is a practical way to gain the trust of the people. Delayed payment due to non availability of funds have caused severe conflict situations with the public in the past. Hence this item has been proposed
4	Deployment traps, cages to catch problematic animals.	16.4.1.3	17.5.4						9°34'20.9"N	76°59'36.6"E	LS	LS	1.00	To mitigate man-animal conflict. The Rapid Response Team stationed at headquarters is managing the man-animal conflict measures of fringes of Tiger Reserve and adjacent area. The team has to be equipped with traps, cages etc. Hence this item is provided.
5	Redressing man animal conflict	16.10.1.1	17.5.4						N-09034'36" N 09 31' 57.1" N 090 30' 28.6" N 09 29' 06.2" 09° 36' 14.5" N 9°27'49.50"N 9°26'4.58"N	E-077° 07'51" E 077°15' 37" E 077° 16' 33.8" E 077°15' 43" E 077°10' 52.17" 76°57'51.40"E 76°56'45.95"E	LS	LS	5.00	Habitations frequently radied by wild animals will be protected by creation & mtce of of trenches, stonewalls, power fences etc. People will be made aware of the various aspects of human wildlife conflict issues through awareness programmes. Rapid response teams have to be kept ready for action at any time of the day. This is an essential item in management of the Tiger Reserve.
6	Provision for ration allowance to field staff	16.16.1							9°27'27.5"N 9°25'33.8"N	76°56'41.4"E 76°56'49.8"E	130 Nos for 3 months	0.005/No.	2.00	Camp food to additional man mazdoor fire protection during the fire season in the interior camps. 130 watchers@ 500rs for 3 months. (from Jan to March)

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					Target	Achievement	Target	Achievement						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
7	Specialized training in the use of Global Information System (GIS), anti-poaching operations, Camera trapping, mStripes and real time monitoring.	16.8.3	20.3						9°28'44.73"N 9°27'27.5"N 9°25'33.8"N	77°14'35.66"E 76°56'41.4"E 76°56'49.8"E	1 No.	0.50/ Nos	0.50	With the advancement of technology, the monitoring of wildlife, habitat management and patrolling are being mapped in GIS platform. This helps in making management decisions easier and effective.
8	Basic health care/ Health Camps	16.16	17.3						9°28'44.73"N 9°27'27.5"N 9°25'33.8"N	77°14'35.66"E 76°56'41.4"E 76°56'49.8"E	4 Nos.	.25/ Nos	1.00	For conducting medical camps in and around PA. This is a major component in the facilitation and support extended for rural development programme through eco-development committees. Tiger Reserve and health department carrying out this programme jointly. in addition to this medical aid is provided to the sabarimala pilgrims during the pilgrimage season along the thaditional trek route passes through the PTR West division area.
Sub Total (Non-Recurring- Buffer)												54.50		
TOTAL (Non-Recurring)												294.28		
RECURRING (R)														
CORE														
1	Deployment of anti-poaching squads.	16.1.2	10.1.2		7600MM	3726MM	52.39	31.48	09° 31' 57.1"N 9° 30' 28.6"N 9° 34' 18.2"N 9°35'37.8"N 9°34'27.5"N 9°31'58"N 9°23'43"N 9°31'8.9"N 9°28'55.6"N 9°26'21'95"N 9°22'16"N 9°,34'17.236" 9°26'53"N 9°29'06.2"N 9.57.66.94N 9°57.3716N 9°52.4383N 9°53.374N 9°.542018N 9°.587750N 9°31'34.4"N 9°34'36.1"N 9°27'27.5"N 9°25'33.8"N 9° 27' 70.7"N 9°27'850"N 9°25'54.64"N 9°27'51.83"N	77°16'32.9"E 77°15' 37"E 77°16' 33.8"E 77°16' 22.2"E 77° 18' 06.3"E 77°20'15.3"E 77° 22'12"E 77°21'42"E 77°18'54.6"E 77°18.26'92.4"E 77°18'29'E 77°17'15"E 77° 5'30"E 77°13.37.5"E 77°24.9033E 77°18.703 E 77°20.8266 E 77°06'45.4"E 77° 07'61.5"E 77°25.583 E 77°15'43"E 77°21.1794 E 76°56'41.4"E 76°56'49.8"E 77° 08' .0"E 76°58'178"E 77° 4'52.67"E 77° 5'28.04"E	5882 MM	.0085/ MM	50.00	Protection is the most important component in Reserve management . Any slackness in prevention of chances of poaching will be suicidal for the Tiger Reserve. Effective planning and deployment of antipoaching squads mitigate special and temporal threats to tigers, co- predators, prey and their habitat. This item is highly inevitable and hence provided. To engage MM for the deploying Anti Poaching Squads PTR East- 16MM*26days*12months 6MM*12days*4months PTR West - 6 MM *25 days *12 months

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					Target	Achievement	Target	Achievement						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
2	Fire management activities	16.1.5	10.1.2						09° 31' 57.1"N 9° 30' 28.6"E 9° 34' 18.2"N 9° 35' 37.8"E 9° 34' 27.5"N 9° 31' 58"N 9° 23' 43"N 9° 31' 8.9"N 9° 28' 55.6"N 9° 26' 21.95"N 9° 22' 16"N 9° 34' 17.236" 9° 26' 53"N 9° 29' 06.2"N 9.57.66.94N 9° 57.3716N 9° 52.4383N 9° 53.374N 9° 54.2018N 9° 58.7750N 9° 31' 34.4"N 9° 34' 36.1"N	77° 16' 32.9"E 77° 15' 37"E 77° 16' 33.8"E 77° 16' 22.2"E 77° 18' 06.3"E 77° 20' 15.3"E 77° 22' 12"E 77° 21' 42"E 77° 18' 54.6"E 77° 18.26' 92.4"E 77° 18' 29"E 77° 17' 15"E 77° 5' 30"E 77° 13.37.5"E 77° 24.9033E 77° 18.703 E 77° 20.8266 E 77° 06' 45.4"E 77° 07' 61.5"E 77° 25.583 E 77° 15' 43"E 77° 21.1794 E	5294 MM	0.0085 / MM	45.00	The strength of regular staff is grossly insufficient for effectively patrolling the tiger reserve. Hence it is proposed to engage Mazdoors from tribes and local dependent communities for effective camping and protection of Tiger Reserve. 16mm*26days*12months 6MM*12days*4months
3	Maintenance of wireless stations and network.	16.1.8	10.1.7.8						N: 09° 34' 18.2 N-09° 34' 36.1" N 77° 25.583 N 09° 35' 37.8" E: 77° 16' 22.2 E-077° 07' 61.5" E 9° 52.4383 E 077° 18' 06.3"	12 Nos	0.5/ Nos	6.00	Wireless radio is the only means of communication to most of the interior APCs. It is the fastest mode of communication to all the APCs with one message. For ensuring the continued operation of this system, annual maintenance and servicing is necessary. For repairs and maintenance of wireless tower, walkie talkies and base stations at 5 locations. This includes main base station at Kuttikkanam, sub stations at Uppupara, Puthussery, Undamedu and Pachakkanam including wages of Wireless operators. This is an inevitable work. Hence it is provided.	
4	Maintenance of vehicles & boats	16.1.20	10.1.7.9		35 nos	32 nos	13	13.14			30 Nos.	LS	20.00	Repair and maintenance of vehicles and boats is highly inevitable for the effective protection of Tiger Reserve
5	Upgradation of existing Choozhy Section Office	16.1.3	10.1.7.2						N 090 27' 42.6"	E 0770 01' 54.2"	1 No.	LS	5.00	1. Choozhy Section Office in Azhutha Range- Section Office is working in an old dilapidated building, staff are also staying in one portion of the same building. This building requires inevitable maintenance. Hence this item is provided. Choozhy section is the most interior section office in this division and the area is highly vulnerable and is in the newly added area.

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					Target	Achievement	Target	Achievement						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
6	Organizing surprise raids and animal rescue operations jointly with the local police(in railway stations, local trains, bus-stops, buses, catchers and cafeteria.)	16.1.9	10.1.4.1						9°28'44.73"N	77°14'35.66"E	LS	LS	1.20	There have been many instances where wildlife articles like tiger and leopard skins and snakes were seized from the passengers of public transport during routine checking of police. It is a very important deterrent for the criminals engaged in wildlife crime.
7	Maintenance of anti poaching camps in the core area.	16.2.1.2	10.1.2						09 28' 55.6" N 09° 35' 30.38" N	E 077 16' 32.9" 77° 10' 27.50" E	2 Nos	2 / Nos	4.00	Improvement of ppatrolling camps, Staff quarters , office buildings etc. for better protection. Thannikudy, Thekkady
8	Maintenance of anti poaching camps in the core area.	16.2.1	10.1.7.1						N 09o 25' 58.7" N 090 27' 850"	E 76o 56' 56.4" E 760 58' 178"	1 No.	3.5/ Nos	3.50	1.maintenance of Section office at Moozhikkal in Azhutha Range: this building requires urgent repair and maintenance to accomodate lady beat forest officers.
9	Conducting nature camps								N 9°37'54.8"	E 76°25'18.4"	10 Nos.	0.25/Nos.	2.50	Conducting nature awareness camp at Thekkady & Vallakkadavu
10	Repair and maintenance of Camera traps, M Stripe mobiles and associated Hardware.	16.2.21	8.3						N 090 35' 48.99"	E 077 10' 30.99"	11 Nos.	LS	1.50	Maintenance of 5 desktop computers , 3 printers and 2 scanners and providing over head projector in DD office and Range offices, is an essential item for timely preparation of information sought by higher offices
11	Maintenance of kucha roads	16.2.3	10.1.7.5						N-09°33'49.2" E- 077°08'36.7" N-09°29'26" E-077°13'04" N-09°23'12.5" E- 077°12'18.5" N-09033'07.7" E- 077°07'15.6" N-09°27'29.7" E- 077°09'42.2" N-09°26'23.7" E- 077°12'08.8" N-09°32'44" E-077°08'48" N-09°29'28.15" E- 077°11'04.40" 9°33'11.00"N 77°10'32.00"E N 09° 34' 05.9" E 77° 14' 27.3" N 09° 33' 39.3" E 77° 13' 18.2" 9°27'27.5" N 9°25'51.00" N, 9°24'58.20" N 9°25'6.70" N 9°28'59.8" N 9°24'43.3" N	N-09°33'29.3" E- 077°07'52.4" N-09°28'07" E- 077°14'37.3" N-09°22'31.9" E-077° 12'15.9" N-09°33'43.0" E- 077°07'24.1" N-09°26'23.8" E-077° 12'08.7" N-09°26'01.0" E-077° 14'22.5" N-09°33'01.6" E-077° 08'40.2" N-09°28'42.67" E- 077°08'46.25" 76°56'41.4" E 77° 1'5.00" E 77° 7'6.72" E 77° 7'12.00" E 77°05' 13.9" E 77°07' 28.0" E 76°56'49.8" E 77° 1'5.00" E	148 km	0.15/ Km	22.25	These roads leading to poaching and ganja cultivation prone areas are to be maintained immediately after monsoon. Proper maintenance of these routes are essential for effective protection. Hence this item is of top priority.

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					Target	Achievement	Target	Achievement						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
12	Maintenance of trek paths	16.2.3	10.1.7.5						9° 34'23", 77°20'5" 9.34'1", 77°19'26" 9° 34'36", 77°20'1" 9°34'25", 77°19'32" 9° 34'58", 77°20'36" 9°33'50", 77°21'3" 9° 32'59", 77°21'47" 9.34'33", 77°20'10" 9° 30'51", 77°15'47" 9°28'57", 77°16'22" 9° 29'9", 77°15'47" 9°29'35", 77°15'47" 9° 29'15.47", 77°17'2" 9°29'31", 77°17'20" 9° 29'42.4", 77°21'42.2" 9° 27'59.8", 77°20'2" 9° 26'79.6", 77°18'37.1" 9°28'5", 77°20'56.9" 9° 20'15.77", 77°16'36.25" 9° 20'15.6", 77°16'47.22" 9° 18'12.3", 77°14'31.7" 9° 18'14.17", 77°14'33.57" 9° 17'43.4", 77°15'33.3" 9° 17'43.1", 77°15'39.9" 9° 17'44.8", 77°16'32.1" 9° 22'35.2", 77°18'36.5" 9° 19'30.5", 77°16'32.17" 9° 31'40.35", 77°16'52.2" 9° 26'22", 77°18'27.3" 9° 25'24.9", 77°19'32" 9° 28'41.3", 77°21'42.6" 9° 22'35.4", 77°18'36.5" 9° 22'26.1", 77°18'42.5" 9.26'12", 77°18.46" 9° 22'35.4", 77°18'36.5" 9° 22'26.1", 77°18'42.5" 9.22'35.4", 77.18'36.5" 9.28'46.6", 77.22.57.1" 9.22'26.1", 77.18'42.5" N- 09031'41" E-077007'49" N-09029'6.41" E-077010'7.41" N- 09029'59" E-077013'11" N-09020'38.4" E- 077011'45.4" N-09020'29.3" E-077011'34.4" N- 09025'03.8" E-077011'43.7" N-09022'31.3" E- 077011'54.8" N-09022'31.9" E-077012'15.9" N-09026'09.2" E-077012'56.9" N-09024'33.4" E-077010'48.4" N-09031'44.7" E-077006'50.7" N- 09034'5.0" E-077007'40.2" N-09033'49.2" E- 077008'36.7" N-09029'45" 9°27'27.5" N 9°23'50.64" N 9°24'46.36" N 9°24'41.90" N 90 27' 43.01" N 90 31' 33.2" N 9°25'33.8" N	9°34'7", 77°19'39" 9°33'32", 77°19'11" 9°34'11", 77°19'0" 9°34'6", 77°19'19" 9°34'30", 77°21'16" 9°32'12", 77°20'4" 9.31'20.4", 77.19'40.1" 9.31'9.4", 77.18'54.6" 9.30'28", 77.16'33" 9.30'28", 77.16'33" 9.26'47", 77.18'45.6" 9.29'9", 77.15'47" 9.30'34.2", 77.18'13.6" 9.29'27.7", 77.19'5.3" 9.28'13.5", 77.21'3.1" 9.27'18.1", 77.21'38.8" 9.27'19", 77.18'96.2" 9.26'25.6", 77.19'26.47" 9.20'38.13", 77.14'27.93" 9.19'49.7", 77.17'57.36" 9.17'17.9", 77.14'10.1" 9.19'12.37", 13'47.27" 9.17'2.33", 77.15'2.8" 9.16'58.2", 77.15'51.4" 9.19'26.8", 77.16'32.8" 9.22'35.4", 77.18'36.5" 9.25'42.5", 77.19'44" 9.28'2.2", 77.23'30" 9.22'24.3", 77.19'50.8" 9.26'12", 77.18'40" 9.25'20.3", 77.20'50.5" 9.23'48", 77.20'28" 9.21'36", 77.18'19" 9.24'7", 77.19'30" 9.27'17.8", 77.22'51.1" 9.21'36.9", 77.16'27.7" 9°29'21" N 77° 08'35E N- 09°29'27.3" E-077° 08'4.42" N-09°26'9" E-077°12'57" N- 09°20'0.3" E-077°13'4" N-09°20'0.3" E-077° 4'E N- 09°22'31.3" E-077° 11'54.8" N-09°26'09.2" E-077° 12'56.9" N-9°21'51.9" E-077° 11'40.4" N-09°26'11.3" E-077° 12'43.2" N-09°24'00.3" E-077° 10'19.5" N-09°32'08.6" E-077°07'21.2" N-09°33'49.2" E-077008'36.7" N-09033'31.9" E-077008'21.8" 77° 8'15.96" E 77° 9'13.31" E 76°56'41.4" E 77° 8'54.09" E 770 05'15.72" E 770 06'42.6" E 76°56'49.8" E	132km	0.25/km	33.00	Foot patrolling is very important in protection of the Tiger Reserve. After the monsoon, the trek paths get eroded and get infested with weed growth. These paths require annual maintenance under three ranges Vallakkadavu, Periyar and Thekkady

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1	2	3	4	5	6	7	8	9	10	11	12	13	14		
13	Fire managemnet activities .	16.2.15	8.5B						09°27'53" 77° 15'54" 09°34'36" 77° 20'2" 09°27'29.8" 77° 16'0.02" 09°35'32.9" 77° 18'4.9" 09°34'58" 77° 20'36 " 09°33'50" 77° 21'3" 09°34'16.32" 77° 16'57.06" N- 090 29' 471"E -0770 08'534" N- 090 37' 56" E -0770 08' 40" N- 090 31' 28.7" E -0770 06' 55" N- 090 32' 31" E -0770 08' 10" 9°35'36.00"N 77°10'25.00"E 9°36'11.00"N 77°10'29.00"E 9°27'27.5"N 9°23'50.64"N 9°24'46.36"N 9°24'41.90"N 9°29'1.00" N 9°24'50.41" N	09°25'37.31" 77° 14'33.63" 09°34'11" 77° 19'1" 09°23'54.57" 77° 15'30.31" 09°34'17.91" 77° 19'4.86" 09°34'30" 77° 21'16" 09°34'57" 77° 20'35" 09°35'29.43" 77° 18'0.33" N-09027'906" E-0770 08'764" N- 090 31' 41" E -0770 04' 49" N- 090 31' 56" E -0770 07' 19" N- 090 30' 56" E -0770 07' 19" 76°56'41.4"E 77°9'13.31"E 77° 8'15.96"E 77° 8'54.09"E 770 05'15.72" E 770 06' 42.6" E 76°56'49.8" E	95 Km	0.35/km	33.50	A major portion of the Tiger Reserve is under Savanna woodlands and grasslands. Grasslands form a primary feeding ground of herbivorous animals providing excellent foraging grounds. The occurrence of fires is a regular event in the hot months starting from January till May every year. It is very difficult to control the wild fires once it gets out of control. Fire Plans are prepared for every Range in the Tiger Reserve and treatment plans have been prepared. The activities include creating firelines and fire breaks, control burning, deployment of fire fighting sqds and particiatory fire management.	
14	Maintenance of fire watch tower	16.2.9	10.1.7.2						9°27'51.83" N 9° 29' 10.5" N	77° 5'0.40" E 77°7'17.43" E	2 Nos.	0.50/No.	1.00	Maintenance of fire watch tower at Seethakkulam, Zero Point and undamedu in Azhutha range and ponnambalamedu in pampa range. Protection mazdoors are provided in these watch towers. This will help to detect the occurrence of fire at the earliest .Hence spreading of forest fire can be controlled effectively.	
15	Maintenance of APC	16.2.1	10.1.7.2						9°27'51.83" N 9° 29' 10.5" N	77° 5'28.04" E 77° 05' 28.1" E	1 No.	LS	5.00	maintenance of APC at Uppupara in Azhutha range: This is a main anti poching campshed of the Tiger Reserve situated in Azhutha range. A portionof the APC is functioning as section office. This is situated in the deep forest area of Azhutha range and is along the side of Sathram-Sabarimala traditionla trekking path. During Sabarimala pilgrim season line departments are also using a portion of this building. Now this building requires inevitable maintenance , hence this item is provided.	
16	Maintenance of building	16.2.1.3	10.1.7.2		3 Nos		1		N-09027'40" N-09 31'35.5" N-09 29'37" N: 9°35'17.00" 09° 35' 25.0" N 9°32'36.004"N	E-0770 08'37.0" E-077 06' 54.2" E-077 13' 3" E: 77°10'40.00" 077° 11' 49.2" E 77°10'.042"E	5 Nos	2.5/nos	12.50	For the upkeep and maintenance of existing buildings under Thekkady, Periyar and Vallakkadavu ranges and Upkeep and maintence of various buildings under pampa and azhutha ranges. Range offices- 2, stations- 3, sections- 6, Inspectiom Bungalows- 2, etc	
17	Capacity building and training.	16.8.1	8.4	9°27'27.5"N 76°56'41.4"E 9°25'33.8"N 76°56'49.8"E	1 No	4 No	0.30	0.34	9°28'44.73"N 9°27'27.5"N 9°25'33.8"N	77°14'35.66"E 76°56'41.4"E 76°56'49.8"E	2 Nos	0.25/nos	0.50	Conducting training programmes on Mstripes, Cameratarpping, EDCS, species montoring/HWC management for field staff to enhance capacity for better management	

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					Target	Achievement	Target	Achievement							
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
18	Habitat improvement measures maintenance Vayal	16.10.5	7.2.2.3.1		114 ha	3ha	12.28	11.13	9°19'35.34"N 9°27'38.87"N, 9°26'57.79"N, 9°34'18.17"N, 9°23'50.56"N, 9°28'35.49"N, N- 09° 28'48.4" N- 09° 32' 30.1" N- 09° 32' 69.5" N- 09° 32' 079" 9°32'34.88"N 9°32'52.65"N 9°32'45.70"N N 090 28' 36.1" N 090 28' 47.93" N 090 29' 12.8" N 09o 27' 0503" N 09o 28' 677" N 09o 25' 031"	77°17'55.90"E 77°17'47.90"E 77°18'20.62"E 77°16'21.44"E 77°15'35.08"E 77°16'48.33"E E077° 8'72.1" E077° 06'49.91" E077° 08' 59.9" E077° 08' 25.1" 77°11'19.81"E" 77°11'7.18"E" 77°11'5.31"E" E 0770 06' 57.2 E 0770 06' 12.62 E 0770 05' 23.4 E 77o 08' .386" E 77o 07' .499" E 77o 03' .550"	100 Nos	0.14/ha	14.00	Vayals are swamps with lush grass. This is a habitat preferred by various ungulates for feeding and wallowing. Woody species invading these vayals need to be uprooted and periodically de-silting operation also should be carried out here. This item is essential for maintaining the quality of the habitat of tiger prey base. Maintenance of vayals are very essential for improving the habitat mainly to provide forage to herbivores and also to restrict the shrinkage of vayals by the invasion of exocotic weeds.	
19	Eradication invasive species	16.3.1	7.2.1.2.1.						9°19'35.34"N, 9°27'38.87"N, 9°26'57.79"N, 9°34'18.17"N, 9°23'50.56"N, 9°28'35.49"N, 9° 28' 48.4" N 9° 32' 30.1" N 9° 32' 69.5" N 9° 32' 079" N 9° 35' 42" N	77°17'55.90"E 77°17'47.90"E 77°18'20.62"E 77°16'21.44"E 77°15'35.08"E 77°16'48.33"E 77° 08' 72.1" E 77° 06' 49.91" E 77° 08' 59.9" E 77° 08' 25.1" E 77° 10' 13" E	36 Ha	0.14/ Ha	5.00	Many species of weeds have reached the forest habitat. Some of them are invasives and others are exotic plants with less wildlife utility. They have very high adaptability to a variety of habitats. Unless they are kept under control, they have the potential to make a large extent of habitat less useful for wildlife.	
20	Restoration of grasslands by deploying mazdoor	16.3.2	7.2.2.3						9°19'35.34"N, 9°27'38.87"N, 9°26'57.79"N, 9°34'18.17"N, 9°23'50.56"N, 9°28'35.49"N, 9° 28' 48.4" N 9° 32' 30.1" N 9° 32' 69.5" N 9° 32' 079" N 9° 35' 42" N	77°17'55.90"E 77°17'47.90"E 77°18'20.62"E 77°16'21.44"E 77°15'35.08"E 77°16'48.33"E 77° 08' 72.1" E 77° 06' 49.91" E 77° 08' 59.9" E 77° 08' 25.1" E 77° 10' 13" E	117 MM	0.0085/ MM	1.00	Many species of weeds have reached the forest habitat. Some of them are invasives and others are exotic plants with less wildlife utility. They have very high adaptability to a variety of habitats. Unless they are kept under control, they have the potential to make a large extent of habitat less useful for wildlife.	
21															
22	Water retention structures	16.3.3	7.2.2.3						N09°30.19" N09° 31' 42" N 9°,27,20.8	E-077°07'11" E-077° 07'20.4" E 77°,21,36.7	9 Nos	LS	7.00	Maintenance of water hole 2 Nos at Pothinkandam & Gavi in Vallakkadavu and 1nos in Thannikudy at Periyar range to assure water availability round the year .This is a strategy of core management. The aim will be to conserve the flora and fauna and landscape in totality. Provided items are maintenance of water holes, desilting of check dams, gully plugging, etc. in	
Sub Total (Recurring -Core)												273.45			
Buffer															

S. No.	Item of work	Para No.		Location / GPS coordinates	Previous Year Details				Current Year Proposal					Justification
		CSS-PT Guidelines	TCP		Physical		Financial		Location / GPS coordinates		Physical Target	Unit Cost	Amount (Financial Target)	
					Target	Achievement	Target	Achievement						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
1	Monitoring of wild animals including installation of camera traps (Peppara, Neyyar Sanctuaries and ABP Range, Kottoor)								8°37'18.0" N 8°64'48 9" N 8°55'608" N	7708'12.3" E 77°14'026" E 77°15'593" E	LS	LS	0.50	Forest effective protection
2	Engaging tribal watchers and local people for protection, perambulation and Rapid Action Force								9°13'50.92" N	076°51'07.54" E	580 Days	0.00750/MM	4.35	wages for daily waged driver and wireless operator
3	Clearing protection paths (Konni / Moozhy / Para)								9°13'50.92" N	076°51'07.54" E	4 Km	0.12/Km	0.48	
4	Expenses for organizing camps in remote forest area (Konni / Moozhy / Para)								9°13'50.92" N	076°51'07.54" E	10.00	0.05/Each	0.50	
5	Maintenance of antipoaching camp sheds (Moozhi)								9°13'50.92" N	076°51'07.54" E	LS	LS	0.45	
6	Provision for ration allowance to field staff	16.16.1	12.7						9°22'30" N	76°46'45" E	LS	1 lakh	1.00	
7	Maintenance of wireless stations, Real time monitoring towers and network.	16.1.8	10.1.7.8					N 09°30' 28.6" N: 09°34 18.2 N 09°35' 37.8"	E 077°16' 33.8" E: 77° 16 22.2 E 077°18' 06.3"	588 MM	.0085/MM	5.00	Round the clock vigil is required in the wireless base camps to receive and transmit the crucial information. This item provides for support of wireless base station at Thekkady and Periyar ranges of PTR	
8	Deployment of local work force for patrolling, surveillance of water holes, manning barriers.	16.1.12	10.1.2		4750mm	1824mm	25	15.38	9°28'44.73"N N 09° 26' 53" N 9°.50768 N 9°.572573 N- 09° 31' 72.9" N- 09° 32' 079" N- 09° 32' 30.0" 9° 27'42.6" N 9°30'46.0" N 9°27'27.5"N 9°25'51.00"N 9°24'58.20 " N 9°25'6.70 N 09°28' 59.8" N 09°24'43.3" N 9°25'33.8"N 9°25'51.00"N	77°14'35.66"E, E 0770 15'30" E 077°.276738 E 77°.275359 E-077° 06'90.3" E-077° 06'98.5" E-077° 07'059" 77° 01' 54.2" E 77° 05' 36.1"E 76°56'41.4"E 77° 1'5.00"E 77° 7'6.72"E 77° 7'12.00"E 77°05'13.9" E 77°07'28.0" E 76°56'49.8"E 77°1'5.00"E	6705 MM	.0085/MM	57.00	For engaging local forest dependent community for strengthening protection in pampa and azhutha ranges-Protection is the most important component of the conservation and accorded top priority in Tiger Reserve Management, includes specific protection strategies . Effective protection can be ensured by engaging local dependent community in protection activities. Their knowledge on the terrain and traditional knowledge on protection is an effective protection management system. DD-West 2700 MM

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		CSS-PT Guidelines	TCP		Physical		Financial		Location / GPS coordinates		Physical Target	Unit Cost	Amount (Financial Target)	
					Target	Achievement	Target	Achievement						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
9	Operation Monsoon-Ensuring special site specific protection measures during monsoon considering the terrain and accessibility of Protected Areas.	16.1.17	10.1.4	9°27'27.5"N 76°56'41.4"E 9°25'33.8"N 76°56'49.8"E	3500 MM	2685 MM	22.05	19.07	9°28'44.73"N N 09° 26' 53" N 9° 50'768 N 9° 57'2573 N- 09° 31' 72.9" N- 09° 32' 079" N- 09° 32' 30.0" 09° 26' 54.18" N 09°27'42.6" N 09° 30' 46.0" N 9°27'27.5"N 9°25'51.00"N 9°24'58.20"N 9°25'6.70"N 9° 28' 59.8" N 9°24' 43.3" N 9°25'33.8"N 9°25'51.00"N	77°14'35.66"E, E 0770 15'30" E 077°.276738 E 77°.275359 E-077° 06'90.3" E-077° 06'98.5" E-077° 07'059" 077°08'59.46" E 077° 01' 54.2" E 077°05' 36.1" E 76°56'41.4"E 77°1'5.00"E, 77°7'6.72"E 77°7'12.00"E 077°05'13.9" E 077°07'28.0" E 76°56'49.8"E 77° 1'5.00"E	2436	0.0085/ MM	20.00	For engaging Man Mazdoor for effective protection during monsoon season. The South West and North East monsoon season requires special attention on protection as poachers are found to be active in this difficult period.Hence camping in the woods throughout the monsoon season is most urgent and inevitable.For this purpose, protection mazdoors shall be engaged through out the Tiger Reserve to support staff in the protection activities. PTR-East 17MM*26D*12M 1mm*12days*8m PTR-West 2117 MM
10	Office Maintenance and improving	16.2.2	12.7						9°25'33.8"N 9°25'51.00"N	76°56'49.8"E 77° 1'5.00"E	3 Nos.	1/ Nos	3.00	To assist in adopt modern methods of information collection, compilation and dissemination, modernization of office at Thekkady, Periyar and Vallakkadavu by
11	Procurement of compass, range finder, Global Positioning System (GPS), camera traps, binoculars	16.2.22	10.1.7.11						9°27'27.5"N 9°25'33.8"N	76°56'41.4"E 76°56'49.8"E	4 Nos	LS	1.00	Purchase of 2 nos of GPS - Protection staff and watchers on protection duties are to be provided with adequate field gears comprising of digital camera, GPS,Compass,metal dector, binoculars, search lights, vessals and medical kit. This is highly essential. Hence purchase of 2 nos of GPS is
12	Maintenance of (staff quarters, family hostels, office improvement, house keeping buildings, museum).	16.2.14	10.1.7.2						N 09°23' 43" N 09°31' 8.9" N 09°35' 17.9"	E077° 21' 42" E 077°18' 54.6" E 077°10'40.9"	5 Nos	3/Nos	15.00	For the upkeep, improvement and maintenance of existing infrastructure/ accomodations especially after deployment of lady staff in field duties, this item has been proposed.
13	Maintenance of patrolling routes.	16.2.3	10.1.7.6		35 KM	45 KM	10	9.68	9°33'33.00"N 9°34'31.09"N 9°34'33.46"N 9°32'19.00"N 9°34'17.00"N 9°27'27.5"N 9°25'6.70"N 9°28' 24.3" N 9° 29' 43.4"N 9° 30' 51.2" N 9°25'33.8" N	77°11'16.00"E 77°10'41.40"E 77°10'33.09"E 77°11'2.00"E 77°11'16.00"E 76°56'41.4" E 77° 7'12.00" E 77°05' 38.6" E 77° 07' 28.0" E 77° 05' 52.3" E 76°56'49.8" E	114 Km	0.15/ Km	17.25	These roads giving access to poaching and ganja cultivation prone areas are to be maintained immediately after monsoon. Proper maintenance of these routes are very essential for effective protection. Hence this item is proposed. Vista clearance

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		CSS-PT Guidelines	TCP		Physical		Financial		Location / GPS coordinates	Physical Target	Unit Cost	Amount (Financial Target)		
					Target	Achievement	Target	Achievement						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	
14	Upkeep and Maintenance of border watch tower and wireless station .	16.2.8	10.1.7.2						9°34'38.55"N 09° 34' 64" N	76°58'29.03"E 7° 58' .47" E	5 Nos	1/ Nos	5.00	Maintenance of wireless station at Kuttikkanam in Azhutha Range including wages of daily wage wireless operator :Kuttikkanam wireless station is the main base station in the West Division of the Tiger Reserve,from where information from the field is collected , analysed and reported to various destinations. Here periodical maintenance of the total system is necessary.
15	Maintenance of Dept vehicles	16.2.18	10.1.7						9°28'44.73"N	77°14'35.66"E	31 No	LS	20.00	Mtce & POL of FD's and TA `s Vehivcle & For maintenance and upkeep of vehicles in Pampa and Azhutha ranges for better mobility.
16	Maintenance of STPF , RRT & Animal Rescue units								9°27'27.5"N 9°25'33.8"N	76°56'41.4"E 76°56'49.8"E	2 Nos.	1.0/ No	2.00	Many situations arise in the management of wildlife populations, where they need to be captured and restrained. For this a well equipped veterinary team shall be maintained. Hence this item is provided for strengthening the existing system.
17	Procurment of computers for assisting in monitoring of patrolling software such as M-Stripes								9°13'50.92" N	076°51'07.54" E	1	0.50/No.	0.50	
18	Veterinary care including immunization of domestic cattle around Tiger Reserve, disposal of carcasses, medicines, rescue operation for wild and captive elephants etc.								9°13'50.92" N	076°51'07.54" E	LS	LS	0.25	
Sub Total (Recurring-Buffer)												153.28		
TOTAL (Recurring)												426.73		
TOTAL NON RECURRING + RECURRING												721.01		
COMMITTED LIABILITY FROM 2020-21 DUE TO THE NON RELEASE OF 100% 2ND INSTALLMENT														
SI.No.	Name of work	Para No. CSS/PT guidelines	TCP	GPS Reading	Item No. in the APO 2020-21	Financial target (In lakhs)	Financial achievement upto 03/21						Amount pending	
Non-Recurring (Core)														
1	Providing support to tiger reserves for raising arming and deploying special Protection Force(STPE)	16.1.1	10.1.4.1	9°27'27.5"N 76°56'41.4"E 9°25'33.8"N 76°56'49.8"E	3	4.25	2.6						0.52	

S. No.	Item of work	Para No.		Location / GPS coordinates	Previous Year Details				Current Year Proposal				Justification
		CSS-PT Guidelines	TCP		Physical		Financial		Location / GPS coordinates	Physical Target	Unit Cost	Amount (Financial Target)	
					Target	Achievement	Target	Achievement					
1	2	3	4	5	6	7	8	9	10	11	12	13	14
2	Organizing vehicular patrolling by constituting squads(Tiger Protection force)(Comprising of field staff, laborers and police of SAF or ex-army personnel or home guards with wireless handset and paraphernalia for apprehending offenders, apart from prescribing a patrolling calender for the	16.1.6	10.1.7.9	9°27'27.5"N 76°56'41.4"E 9°25'33.8"N 76°56'49.8"E	4	8.5	0					5.02	
3	Creation of fire lines and fire breaks	16.2.14	7.2.2.2.3	9°27'27.5"N 76°56'41.4"E 9°25'33.8"N 76°56'49.8"E	6	9.4	0					9.28	
Sub Total Non Recurring Core												14.82	
Non-Recurring (Buffer)													
1	Basic health care/Health Camps	16.16	17.3	9°27'27.5"N 76°56'41.4"E 9°25'33.8"N 76°56'49.8"E	10	1	0					0.53	
Sub Total Non-Recurring (Buffer)												0.53	
TOTAL NON RECURRING												15.35	
Recurring (Core)													
1	Maintenance of existing patrolling camps/chowkies	16.1.3	10.1.7.2	9°27'27.5"N 76°56'41.4"E 9°25'33.8"N 76°56'49.8"E	7	3	0					0.99	
2	Maintenance of kuccha roads	16.2.3	10.1.7.5	9°27'27.5"N 76°56'41.4"E 9°25'51.00"N 77°15'00"E 9°24'58.2"N 77°76'72"E 9°25'6.70"N 77°7'12'00E	11	6	1.31					4.37	
3	Capacity building and training	16.8.1	8.4	9°27'27.5"N 76°56'41.4"E 9°25'33.8"N 76°56'49.8"E	17	0.2	0.15					0.04	
Sub Total Recurring (Core)												5.4	
Recurring(Buffer)													
1	Deployment of local work force for patrolling, surveillance of water holes, manning barriers.	16.1.12	10.1.2	N9°27'27.5"E 76°56'41.4"E N9°25'33.8"E 76°56'49.8"E	3	8	5.38					0.75	
2	Maintenance of tranquilizing equipments and rescue vehicles(Item will be in a dropdown)			9°27'27.5"N 75°56'41.4"E 9°25'33.8"N 76°56'49.8"E	10	0.75	0.15					0.18	
Sub Total Recurring (Buffer)												0.93	
TOTAL RECURRING												6.33	
Grand Total												21.68	

S. No.	Item of work	Para No.		Location / GPS coordinates	Previous Year Details				Current Year Proposal				Justification		
		CSS-PT Guidelines	TCP		Physical		Financial		Location / GPS coordinates			Physical Target		Unit Cost	Amount (Financial Target)
					Target	Achievement	Target	Achievement							
1	2	3	4	5	6	7	8	9	10	11	12	13	14		
GRAND TOTAL (TOTAL APO 2021-22 + COMMITTED LIABILITY 2020-21)												742.69			

(Rs. In lakhs)

SI No	Items	Sanction	Central Assistance
1	Non Recurring (60%)	294.28	176.57
2	Recurring (50%)	426.73	213.37
3	Spill over works of 2020-21 to be paid during FY 2021-22 (Non Recurring 60%)	15.35	9.21
4	Spill over works of 2020-21 to be paid during FY 2021-22 (Recurring 50%)	6.33	3.17
	Total	742.69	402.31

(Rs. In lakhs)

Cost of APO including State's share	A	742.69
Center's share in APO	B	402.31
1st release @25% of Center share	$C = .25 * B$	100.58
Less: Unspent balance FY 2020-21	D	0.00
Adjusted first release	$E = C - D$	100.58
Balance of central share to be released	$F = 0.75 * B$	301.731