SipnaShikshanPrasarak Mandal Amravati Arts , Science & Commerce College , Chikhaldara Dist. Amravati M. S.



Extension Activity report

Academic Year 2022-23

Training to the frontline staff of Protected Areas for Grassland Management







Beneficiary of Training Workshop: Frontline staff and officers of TadobaAndhari Tiger Reserve ,NawegaonNagzira Tiger Reserve , Sahyndri Tiger Reserve, Melghat Tiger Reserve (Maharashtra State), Valmiki Tiger Reserve (Bihar), Mudumalai Tiger Reserve , Wallanadu Black Buck wildlife sanctuary(Tamil Nadu), Ratapani Wildlife Sanctuary, Kanha Tiger Reserve (Madhya Pradesh)

Training by : Prof G D Muratkar, Assist. Prof, Environmental Science

Academic Year: 2022- 23 Department of Environmental Science

SipnaShikshanPrasarak Mandal Amravati Arts, Science &Commerce College Chikhaldara Department of Environmental Science

Extension Activity Report

Trainingto the Frontline Forest Staff

For Grassland Management in Protected Areas of India

1. Title

Training to the frontline forest staff for Grasslands Management in Protected Areas of India.

2. Goal

- To train forest department frontline staff for grassland developmentand managementinProtected Areasof India.
- TodevelopgrazinghabitatforherbivoresinProtectedAreasspecially inTigerReserve,Sanctuaryand Nationalpark.

Participants in the field workshop

Sr. No.	Name of ProtectedA rea	Duration	Beneficiaries	Beneficiary Number
1	Melghat Tiger Reserve Maharashtra State	October 2022	DCF, FieldDirector, RFO,Section officer,Bit guard oftigerreserve	45
2	Sahyandri Tiger Reserve, Maharashtra State	November 2022	DCF, FieldDirector, RFO,Section officer,Bit guard oftigerreserve	35
3	Tadoba Andhari Tiger Reserve MS	July , September , December 2022 and May 2023	DCF, FieldDirector, RFO, Bit guard	45

4	Navegaon Nagzira Tiger Reservev, Maharashtra State	December202 2	DCF, FieldDirector, RFO,Section officer,Bit guard oftigerreserve	25
5	Mudumalail Tiger Reserve,Tamil Nadu	June 23	DCF, FieldDirector, RFO,Section officer,Bit guard offigerreserve	40
6	Wallanadu Black Buck Wildlife Sanctuary, Tutthikudi TN	May 23	DCF,, RFO,Section officer,Bit guard oftigerreserve	20
7	Elephant Reserve Ambikapur Chattisgarh State	June 2023	CF,DCF,RFO, Section officer,Bit guard ofElephantrese rve	85

Concept

Forest Ecosystem in Protected Areas shows distribution of grasslands, the % of forest should be 33% and grasslands 7 %, but recently grasslandsareas are decreasing year by year due to invasion of woody species and invasive weeds. Herbivores require grasslands for grazing, breeding, nesting, hiding habitats for wild habitat management.

Grasses are annual, perennial, soft, course, palatable and non palatable. Grasslands are of three types smaller, intermediate and taller. Soilpresent in forest ecosystem determines composition of grasslands. Foddervalue of grasses determined by chemicals, nutrients, fiber % before and afterflowering. Grasslands development and management in Protected Areas likeTiger reserve, Sanctuary is important work and to train frontline staff isregular work from 2012.

To know the soil characters, texture , colour and water holding capacity

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habited in theprotected areas. The grasses are the producers, soil binders, provides chemical energy to the wildlife in the form of fodder species. The protected areas forest are with 2.0 to 4.5% grasses naturally it should be 6-7%. Now recently natural grasslands and relocated areas of the Protected Areas are developing in to good grasslands for the herbivores. Grasslands are the green ground cover of protected areas in forest. The grasses are useful for grazing habitat of wildlife (Herbivores).

Thegrasslandmanagementpractices:

- 1. Togivethefieldtrainingtotheforestsfieldstaffinthenaturalgrasslands and relocated areas of the Protected Areas in each season of the year.
- 2. Toknowtheexactareaofgrasslandyearwisebydemarcationofgrasslandarea byGPS.
- 3. Grasses identification training to field staff by local names and scientificnames.
- 4. Weedsidentificationwithlocalnamesandtheirfloweringseason.
- 5. Browsingspeciesidentificationwithlocalnames.
- 6. Fieldtrainingtocollectthegrassesseedsandwildlegumesseeds.
- 7. Weederadicationprogrammetwotimesinayear
- 8. Grasslandsenrichmentbyseedbroadcastingin May -Juneseason.
- 9. Grassesbiomass managementpracticesinmosaicpattern.
- 10. Wildfruittreesidentificationandadditioninrelocatedareas.
- 11. CompletetrainingprogrammesareorganizedbytheCCF&FieldDirectorofth e respectiveTigerReservesin each season.

The practices in the field

- 1. Grassesidentification-October.
- 2. Weedsidentification-August.

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- 3. Wildleguminousplantsidentification-September.
- 4. Weedsuprootingthreetimesineachyear.
- 5. Grassesseedscollection-SeptembertoFebruary.
- 6. Wildlegumesseedscollection-November–December.
- 7. Grassesseedsadditioninselectedareasforgrasslanddevelopment.
- 8. Observationofgrasslands.
- 9. Toknowthecompositionofgrasslands.
- 10. Brushwoodmanagementtoreducewoodland.
- 11. Topreparegrasslandmanagementregister.

Results of Extension activity

- CapacitybuildingoffrontlinestaffofProtectedAreas.
- FieldinterventionsforhabitatimprovementinProtectedAreas.
- EHerbarium of grasses and identification.
- Documentation of benchmarks and results.
- Comparative analysis before and after work.
- Ecological restorations of grasslands.
- Improvement in wildlife habitat.
- Frontline staff get trained for grassland management.
- Forest Department in India actively participating in grasslandsmanagement.

(Mr.G.D.Muratkar)

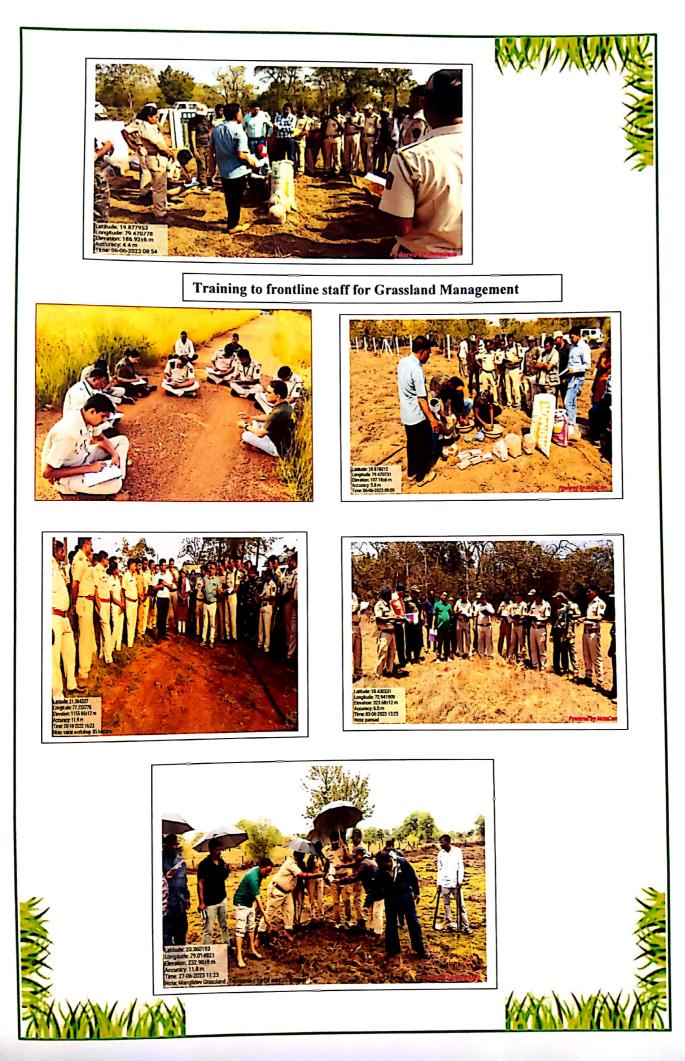
G. D. shturatkar PrAnnip Anti-terrefer vironmental Science Arts, Science & Commerce College, Chikhaldara, Arts, Science & Commerce College, Chikhaldara, Chikhikharayati.

Date: 14.06.2023

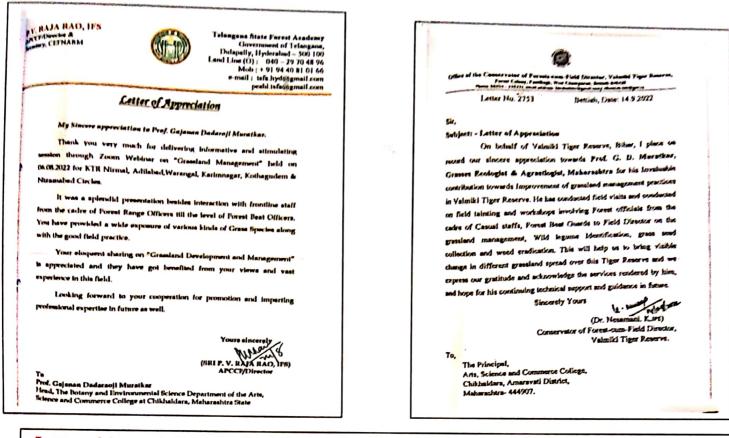
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Art, Science & Commerce College, Chikhaldara	



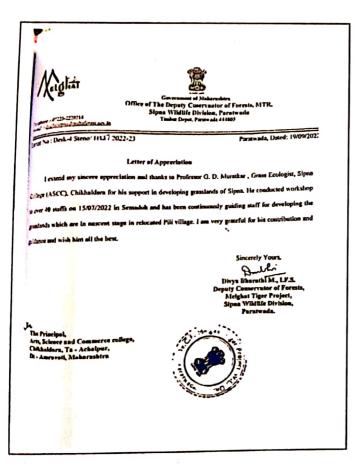
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Letter of Appreciations for Training to Frontline Staff for Grassland Management

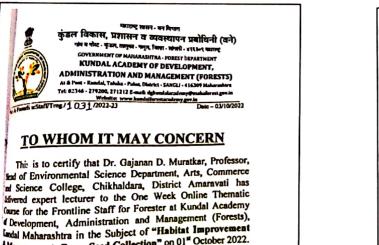


SERIE SUTP			
SATPUDA LANDSCAPE TIGER PARTNERSHIP			
This certificate is presented to			
Dr. Ga janan D Muratkar			
for grassroots conservation work in central India.			
Wightin huller Con Succession			
KEEP WILDLIFE IN THE WILD			

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Appreciation Letters for Extension Activity Academic Year 2022-23

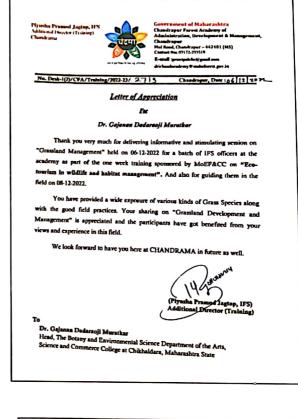


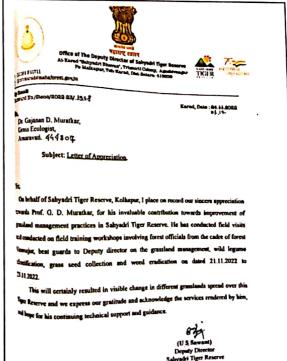


Maharashtra in the Subject of Habitat All October 2022.

all the success in his future life.

(Dr.S.B. Jadhav LF.S.) Director Kundal Academy of Development, Administration and Management (Forests)





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Municipal Council Chikhaldara Tehsil: Chikhaldara Distt.: Amravati Office : 07220-230248, Fax : 07220-230364 Email : Co.Chikhaldara@gmail.Com

No. ChiNpa/Kavi- 109/ 2023-24

Date: 15/05/2023

To, The Principal Arts, Science and Commerce College, Chikhaldara.

Sir,

With the initiative of the Department of Chemistry at Arts, Science and Commerce College, Chikhaldara, Municipal Council Chikhaldara has been implementing the plastic eradication campaign for last five years.

In particular, your college has implemented important activities such as public awareness of plastic elimination, street drama, distribution of cloth bags (made of old cloth) among citizens under this campaign.

Certainly, all these projects for the elimination of plastic are a great achievement for this city. Your college always participates in such social events. We thank you on behalf of the Municipal Council, Chikhaldara.

> Sd/-Chief Officer Municipal Council Office Chikhaldara.

Commarca

College, Chikhaldara





Date: 10/08/2022

To,

The Principal, Arts, Science and Commerce College, Chikhaldara District. Amaravati (M.S)

Subject:- Collaboration Between Sampurn Bamboo Kendra, Lawada And EDIIL Cell, Arts Science and Commerce College, Chikhaldara, District. Amaravati (M.S)

Respected Sir,

Collaboration Details:

We propose the organization of a bamboo craft training program for the students of Arts Science And Commerce College, Chikhaldara, District. Amaravati (M.S) within college premises, facilitated by sampurn bamboo kendra, lawada. This program aims to provide our students and members of the local community with hands-on training in bamboo craftsmanship, leading to skill development, livelihood enhancement, and the promotion of sustainable practices. The program will consist of workshops, demonstrations, and practical sessions conducted by experts from Sampurn Bamboo Kendra.

Responsibilities:

As part of this collaboration, Arts, Science and Commerce College will provide the necessary infrastructure, classroom space, and logistical support required for the training program. We will also promote the program among our students and community members to ensure maximum participation. Sampurn Bamboo Kendra, Lawada will be responsible for designing and delivering the training modules, arranging for skilled trainers, and overseeing the overall execution of the program. They will also contribute their expertise in bamboo craft and sustainable livelihood practices.

Duration: 1 year from date of issuance of this letter.

Regards.

Thank you.

Dr. Nirupama Deshpande (President) Sampoorna Bamboo Kendra (SBK)

email : sampoornabamboo@gmail.com ewebsite : www.sampoornabamboo.org

To, The principal, Arts, Science and commerce College, Chikhaldara.

Subject: Appreciation for College Community Initiatives

Dear sir,

The Aladoh local authority extends heartfelt gratitude towards you and the college for organizing impactful activities in our village. Your commitment to address social issues and support in enhancement of the under privileged, especially women, is commendable. Efforts of NSS unit of the college has created a positive impact to foster moral values and ethics among the villagers.

Thank you for being a catalyst for positive changes.

Sincerely,

Sarpanch

Group Grampanchayat Aladoh – Shahapur Tehsil: Chikhaldara Distt: Amravati (M.S.)

> सरपंच गढ व्रा र्ग जहांतूर ग चिवन्द्र का करावती



जावक क्र. :

दिनांक : 10/03 / २०२3

APPRECIATION LETTER

To, **The principal,** Arts, Science and Commerce College, Chikhaldara, Distt. Amravati.

Subject :- Appreciation for College's Community Initiatives

Dear, Dr. R.S. Jaipurkar,

The Nagar Parished Chikhaldara authority extends heartfelt gratitude to you department of Geology and the students of the college for organizing impactful activities of Rainwater Harvesting Awareness campaign in this region. You commitment to addressing Democratic concerns and supporting the enrichment the awareness about save water, especially youth and tribe of the Melghat creditable. Your efforts have made a positive change, development community well being.

Thank you for positive change.

Sincerely,

लदग



जगर परिषद चिखतदरा ता.चिखलदरा,जि.अमरावती

जावक क्र.

क्रं.चिनपा/कावि- 109 /2023-24

दिनांक- 15/05/2023

दि....

प्रति,

प्राचार्य, कला, विज्ञान व वाणिज्य महाविद्यालय, चिखलदरा.

महोदय,

कला, विज्ञान व वाणिज्य महाविद्यालयाच्या रसायनशास्त्र विभाग यांचे पुढाकाराने, चिखलदरा नगर परिषद प्लॅस्टिक निर्मृलन अभियान गत पाच वर्षा पासुन राबवित आहे.

विशेषत्वाने आपल्या महाविद्यालयाने या अभियाना अंतर्गत प्लॅस्टिक निर्मृलनाचे जन जागरण, पथनाटय, जुने कापड वापरुन कापडी पिशवीचे नागरीकांमध्ये वाटप इत्यादी महत्वपुर्ण उपक्रम राबविलेले आहे.

निश्चितच प्लॅस्टिक निर्मृलना करीता या सर्व आयोजनाचा या नगरी करीता मोठी उपलब्धी आहे. आपण नेहमीच अश्या सामाजिक कार्यक्रमांमध्ये आपला सहभाग असतो.

नगर परिषद, चिखलदरराच्या वतीने आम्ही आपले आभार मानतो.



मख्याँ धकारी क्रेस्वी

नगर परिषद कार्यालय चिखलदरा.

विदया विनयेन शोभते ज्ञानगंगा गीताई भेले शिक्षण संस्था ,करजगाव द्धारा संचालित

समता विदयालय चमक बु॥ ता.अचलपुर शिक्षण मंडळ अम.नं: ०२.१०.०४४ शाळा टॅन नंबर : NGPS03644E वेतन पथक अम.: ४०५ शाळा पॅन नंबर : AAGST 0291P UDISE CODE: 27070104402 व्यवसाय कर : Tin No. 27555150491P DDO COD: 04610100353 व्यवसाय नं : PTRC NO - 4/3/2/219

मा. शेषरावजी तिखिले (अध्यक्ष) शाळा समीती

अरविंद वि. अपाले (मुख्याध्यापक) 7350098211

जावक क्र -274 / 10.4.2024

The principal,

Arts, Science and Commerce College, Chikhaldara.

Subject: Appreciation of the activity Let's Celebrate Examination (2.0)

Dear Sir,

I hereby extend heartfelt appreciation to you and the college for organizing impactful activities in our community. The activity Amravati District Level Online Panel Discussion- 'Let's Celebrate Examination (2.0)' organized by you on 31.01.2023 is found to be very useful for our students. Your efforts have made a positive difference, fostering community well-being.

Thank you for being a catalyst for positive change. Sincerely,

समता विहा ा. चमक ब्रा न, आचलपुर जि आमरात

- भी हनुमान व्यायाम प्रसारक मंडळ, अमरावती द्वारा संचालित **गिरीजान विद्यालया वा वाजनिष्ठ महाविद्यालय** चिखलादरा, ता. चिखलादरा, जि. अभरावती (मेळ्पाट आदिवासी परिसरातील अग्रमण्य संरथा)

वेतन पथक क्र. :३६१ शाळा निर्देशांक : ०२-१३-००९, कमवि निर्देशांक : ०२-१३-००१ UDISE CODE - 27070600109 TAN - NGPGO1705E

जावक क्र.

Appreciation Letter दिनांक : 19/0१/२०२३

To, The Principal, Arts, Science And Commerce College Chikhaldara.

Subject: - Appreciation for organizing awareness programme of Jagar Vivekacha.

We extend heartful appreciation you for organizing awareness programme of "Jagar Vivekacha" in our Junior college through the department of Sociology of ASCC College Chikhaldara. Your commitments of addressing social issues and efforts have made a positive difference. Thanks for the cooperation.

Date:-

<u>प्रिप्रीचाय</u>/

्रिंग वाय/मुख्याध्यापक गिरीजन विद्यालय व कनिष्ठ महाविद्यालय चिखलदरा, जि.अमरावर्ल

