





Education through self-help is our motto- KARMAVEER

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya,

Ramanandnagar (Burli) Tal. Palus Dist. Sangli 416 308 (Maharashtra)

Affiliated Shivaji University, Kolhapur

Founder: Padmabhushan Dr. Karmaveer Bhaurao Patil (D. Litt.)

Email: asco_magar@ymail.com Website: www.asccramanandnagar.in

Index no. junior J 22 07 001, MCVC J 22 07 901, Udise-27350604007



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Short Term Course Department of Geography

2024-2025

Name of the course: "SOIL TESTING AND ANALYSIS"

Duration 2 Months (90Hrs) Total Credits 4

Short Term Course Co-ordinator	:	Mrs. A. B. Madavi
Email	:	asha.madavi@gmail.com
Mobile No.	:	8975134076
Course Fee	:	free
Total Students	:	10
MoU	:	01

Board of Studies:

Sr. No.	Name	Designation	Mobile No.	Email
1	Mrs A. B. Madavi	Head of Department	8975134076	asha.madavi@gmail.com
2	Mrs A. B. Madavi	Course Co-ordinator	8975134076	asha.madavi@gmail.com
3	Mr. D. P. Gawari	Placement Officer	9960323569	gawaridhanesh@gmail.com
4	Mr. S. R. Patil	Expert from respective Field	9860271729	krantisugar.env@gmail.com


Co-ordinator


Principal,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)
Tal. Palus, Dist. Sangli





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Department of Geography

2024-2025

Name of College: Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar, (Burli)

Short Term Course

Name of the course: "SOIL TESTING AND ANALYSIS"

Duration 90Hours

Total Credits 4: II credit: 15 Hours of Theory and

II credit: 30 Hours of Practical

Objectives:

- 1) To provide basic knowledge of soil testing and analysis.
- 2) To provide skills education of soil testing and analysis.
- 3) TO skills in soil & water testing lab maintenance.
- 4) To develop communication and management skill.

Theory Syllabus (30Hrs. = 2 credits)

Module	Theory Hrs.	Total Hrs.
Module I. Introduction to soil science • Definition of soil • Formation of soil • Soil Properties • Soil Profile	15	15
Module II. Soil Testing And Analysis • Importance of Soil Testing and Analysis • Study of Instrument • Soil Test Report and Fertilizer Recommendation • Study of Laboratory Setup	15	15

Practical Syllabus (60Hrs. = 2 credits)

List of 15 Practical's

Module	Practical Hrs.	Total Hrs.
Module I. Field Visit and Report Writing • Visit to Soil Testing Laboratory • Report Writing • Visit to farmers fields for collection of soil samples • Identification of nutrient deficiency Symptoms in Crop	16	16
Module II. Soil Testing and Analysis • Preparation of Chemical Required for Soil Testing • Processing of soil Sampling for analysis • Determination of PH of soil sample using PH meter • Determination of available Nitrogen from soil Sample • Determination of available Phosphorus from soil sample • Determination of available Potassium from soil sample	28	28
Module III. Preparation of Soil test Summaries • Preparation of soil test report • Interpretation of result • Fertilizer recommendation	12	12
Module IV. Preparation of soil Health card	04	04
Total: 90Hrs	Theory 30 Hrs	Practical 60 Hrs

• **Learning Outcomes:**

1. To understand of definitions and concept of soil science
2. To understand the application
3. Identify the importance of soil and soil related problems
4. Students get skills of soil sample collection, analysis and interpretation of soil sample
5. To create report and Fertilizer recommendation to farmer

• **References:**

1. Soil Science: Dr. Satish Bhagwantrao Aher & Dr. Dharmendra Singh
2. Soil Testing: K. V. S. Apparao
3. Soil Analysis: An Interpretational Manual: S. S. Jatav & E. Sathyanarayan
4. Laboratory Manual for soil Testing : Dr. D. K. Maharaj & S. K. Kataria
5. Soil Geography – A. K. Khatib

• **Examination Pattern:**

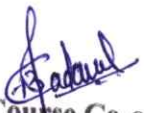
Theory Examination : 50 Marks

Practical : 30 Marks

Field Visit/ Industrial Visit : 20 Marks

Board of Studies:

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1	Mrs A. B. Madavi	Head of Department	8975134076	asha.madavi@gmail.com
2	Mrs A. B. Madavi	Course Co-ordinator	8975134076	asha.madavi@gmail.com
3	Mr. D. P. Gawari	Placement Officer	9960343569	gawaridhanesh@gmail.com
4	Mr. S. R. Patil	Expert from respective Field	9860271729	krantisugar.env@gmail.com


Short Term Course Co-ordinator


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Department of Geography

2024-2025

"SOIL TESTING AND ANALYSIS"

NOTICE

All the students are informed that "SOIL TESTING AND ANALYSIS" short term course of the Geography Department are hereby informed that course is starting from 01 December 2024 to 31 January 2025; Kindly notice that attendance is compulsory for course.


Head,
Department of Geography
Dr. Patangrao Kadam Mahavidyalaya
Department of Geography
Ramanandnagar (Burl)





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Short term course

2024-2025

Department of Geography

Name of the course: "SOIL TESTING AND ANALYSIS"

REPORT

Department of Geography Conducted Short Term Course for the year 2024-2025 on "Soil Testing and Analysis" In this course 10 students were admitted for this year. The course was conducted with the aims to make student skills in soil testing and analysis. Get knowledge in testing soil and lab maintenance. This course was conducted as per the timetable. The examination was conducted where 10 students were present. The certificates were distributed to the successful students.


Co-ordinator


Head,
Department of Geography
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)


Principal,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)
Tal. Palus Dist. Sangli.





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Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya,
 Ramanandnagar (Burl) Tal. Palus Dist. Sangli 416 308 (Maharashtra)
 Affiliated Shri Chhatrapati Shivaji Maharaj University, Kolhapur
 Founder: Padmabhushan Dr. Karmaveer Bhaurao Patil (B.Litt.)

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Department of Geography

2024-2025

“SOIL TESTING AND ANALYSIS”

STUDENTS ENROLLMENT

Sr. No.	Roll No.	Name Of The Student
1	1251	Dalavi Umesh Sopan
2	1252	Date Aditya Ravindra
3	1253	Davang Tushar Pratap
4	1254	Gawade Pradip Uddhav
5	1255	Jadhav Harshad Sakharam
6	1256	Jadhav Shantanu Uday
7	1257	Jadhav Sharvari Raviraj
8	1258	Kumbhar Sahil Jaywant
9	1259	Mane Gourav Popat
10	1262	Nadaf Nafisa Akram


Co-ordinator


Head,
Department of Geography
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burl)



Department of Geography

2024-2025

“SOIL TESTING AND ANALYSIS”

EXAM NOTICE

All The students of “SOIL TESTING AND ANALYSIS” short term course of the Geography Department are hereby informed that of examination of that paper will conducting as per time table are as follows:

Examination	Date	Time
Theory	31 January 2025	10.30 a. m. to 12.30 p. m.
Practical	01 February 2025	10.30 a. m. to 12.30 p. m.


Course co-ordinator


Head of Department
Department of Geography
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Ramanandnagar (Burl)





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Department of Geography

2024-2025

Short term course

“SOIL TESTING AND ANALYSIS”

List of Paper Setter, Examiners & Moderators

Sr. No.	Name of Paper Setter, Examiners & Moderators	Name of college	Contact Number
1	Mrs A. B. Madavi	Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar(Burli)	8975134076
2	Mr. D. P. Gawari	Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar(Burli)	9960343569
3	Miss. A. Mamlayya	Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar(Burli)	7410781096
4	Mr. S. A. Maske	Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar(Burli)	7588553818


Co-ordinator


Head,
Department of Geography
Dr. Patangrao Kadam Mahavidyalaya
Ramanandnagar (Burli)

Principal,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)
Tal. Palus, Dist. Sangli.

Seat No.	
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Rayat Shikshan Sanstha s

Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)

Short Term Courses Examination, 2024-2025

Department of Geography

Paper Name:- Soil Testing and Analysis (Theory)

Sub-Code: STC-02

Date: 31 January 2025

Time: 10.30 a. m. to 12.30 p. m.

Total Marks: 50

Instructions: 1) Attempt all Questions Serially.

2) Figure to the right in brackets indicates full marks.

3) All questions are compulsory.

Que. 1. Choose the correct option.

(20)

1. What is the primary purpose of soil testing?

A) To determine soil texture

B) To assess soil fertility

C) To identify soil contaminants

D) To evaluate soil structure

2. Which of the following soil tests measures the concentration of exchangeable cations?

A) pH test

B) EC test

C) CEC test

D) Texture test

3. What is the pH range for most plant growth?

A) 3.5-4.5

B) 5.5-7.5

C) 8.5-9.5

D) 10.5-11.5

4. Soil texture can be determined by feeling the soil between your fingers. (True/ false)

5. Soil pH affects the availability of nutrients for plant growth. (True/ false)

6. Soil testing is only necessary for agricultural soils. (True/ False)
7. The _____ test measures the concentration of soluble salts in the soil.
(EC (Electrical Conductivity)/ Texture test)
8. The _____ test determines the amount of organic matter in the soil.
(OM (Organic Matter)/ EC (Electrical Conductivity))
9. The _____ test assesses the soil's ability to retain and release nutrients.
(CEC (Cation Exchange Capacity)/ Texture test)
10. The central soil salinity Research institute is Situated in ----- state.
(Hariyana/ Maharashtra)

Que. 2 Short notes. (Any two)

(20)

- 1) Soil profile and soil's pH
- 2) Physical properties of soil
- 3) components of soil texture

Que . 03 Long answers (Any one)

(10)

- 1) Discuss the importance of soil testing in agriculture and environmental management.
- 2) Describe the different methods of soil analysis, including their advantages and limitations.

Seat No.

Rayat Shikshan Sanstha s

Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)

Short Term Courses Examination, 2024-2025

Department of Geography

Paper Name: - Soil Testing and Analysis (Practical)

Sub-Code: STC-02

Date: 01 February 2025

Time: 10.30 a. m. to 12.30 p. m.

Total Marks: 50

Instructions: 1) Attempt all Questions.

Que. 1. Preparation of chemical required for soil testing.

Que. 2 Processing of Soil Sampling for analysis.

Que. 3 Determination of pH of soil sample using pH meter.





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Department of Geography

"SOIL TESTING AND ANALYSIS"

Short Term Courses Examination, 2024-2025

MARK SHEET

Sr. No	Roll No.	Students Name	Theory (50)	Practical (30)	Field visit (20)	Total Marks (100)	Result	Remark
1	1251	Dalavi Umesh Sopan	42	25	16	83	Pass	Dist.
2	1252	Date Aditya Ravindra	44	20	17	81	Pass	Dist.
3	1253	Davang Tushar Pratap	40	23	18	81	Pass	Dist.
4	1254	Gawade Pradip Uddhav	43	25	16	84	Pass	Dist.
5	1255	Jadhav Harshad Sakharan	42	23	18	83	Pass	Dist.
6	1256	Jadhav Shantanu Uday	40	22	18	80	Pass	Dist.
7	1257	Jadhav Sharvari Raviraj	43	26	17	86	Pass	Dist.
8	1258	Kumbhar Sahil Jaywant	41	25	19	85	Pass	Dist.
9	1259	Mane Gourav Popat	333	21	15	69	Pass	first class
10	1262	Nadaf Nafisa Akram	45	27	20	91	Pass	Dist.


Co-ordinator


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Department of Geography

“SOIL TESTING AND ANALYSIS”

Short Term Course: 2024-2025

COURSE OUTCOMES

1. To understand physical chemical and biological properties of soil and water
2. To identify and analyze key water quality parameters, including pH, turbidity, and nutrient level.
3. To make soil and water analysis reports.
4. To classify the methods and techniques of soil and water analysis.



Rayat Shikshan Sanstha S

Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)

Department of Geography

2024-2025

"SOIL TESTING AND ANALYSIS"

ATTENDANCE REPORT

Name Of The Student			Month: December 2025														
Sr. No.	Roll No.		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
1	1251	Dalavi Umesh Sopan		U.S D	U.S D	U.S D	U.S D	U.S D	U.S D		U.S D	U.S D	U.S D	U.S D	U.S D	U.S D	
2	1252	Date Aditya Ravindra		A.R.D	A.R.D	A.R.D	A.R.D	A.R.D	A.R.D		A.R.D	A.R.D	A.R.D	A.R.D	A.R.D	A.R.D	
3	1253	Davang Tushar Pratap		TPD	TPD	TPD	TPD	TPD	TPD		TPD	TPD	TPD	TPD	TPD	TPD	
4	1254	Gawade Pradip Uddhav		PTD	PTD	PTD	PTD	PTD	PTD		PTD	PTD	PTD	PTD	PTD	PTD	
5	1255	Jadhav Harshad Sakharam		HST	HST	HST	HST	HST	HST		HST	HST	HST	HST	HST	HST	
6	1256	Jadhav Shantanu Uday		ST	ST	ST	ST	ST	ST		ST	ST	ST	ST	ST	ST	
7	1257	Jadhav Sharvari Raviraj		ST	ST	ST	ST	ST	ST		ST	ST	ST	ST	ST	ST	
8	1258	Kumbhar Sahil Jaywant		ST	ST	ST	ST	ST	ST		ST	ST	ST	ST	ST	ST	
9	1259	Mane Gourav Popat		ST	ST	ST	ST	ST	ST		ST	ST	ST	ST	ST	ST	
10	1262	Nadaf Nafisa Akram		ST	ST	ST	ST	ST	ST		ST	ST	ST	ST	ST	ST	

Head, Department of Geography
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Department of Geography

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"SOIL TESTING AND ANALYSIS"

ATTENDANCE REPORT

Sr. No.	Roll No.	Name Of The Student	Month: December 2025															
			16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
1	1251	Dalavi Umesh Sopan	U.S.D	U.S.D	U.S.D	U.S.D	U.S.D	U.S.D					U.S.D	U.S.D	U.S.D		U.S.D	U.S.D
2	1252	Date Aditya Ravindra	ARD	ARD	ARD	ARD	ARD	ARD					ARD	ARD	ARD		ARD	ARD
3	1253	Davang Tushar Pratap	TPD	TPD	TPD	TPD	TPD	TPD					TPD	TPD	TPD		TPD	TPD
4	1254	Gawade Pradip Uddhav	PLD	PLD	PLD	PLD	PLD	PLD					PLD	PLD	PLD		PLD	PLD
5	1255	Jadhav Harshad Sakharam	HSJ	HSJ	HSJ	HSJ	HSJ	HSJ					HSJ	HSJ	HSJ		HSJ	HSJ
6	1256	Jadhav Shantanu Uday	UDJ	UDJ	UDJ	UDJ	UDJ	UDJ					UDJ	UDJ	UDJ		UDJ	UDJ
7	1257	Jadhav Sharvari Raviraj	RSJ	RSJ	RSJ	RSJ	RSJ	RSJ					RSJ	RSJ	RSJ		RSJ	RSJ
8	1258	Kumbhar Sahil Jaywant	SKJ	SKJ	SKJ	SKJ	SKJ	SKJ					SKJ	SKJ	SKJ		SKJ	SKJ
9	1259	Mane Gourav Popat	GPm	GPm	GPm	GPm	GPm	GPm					GPm	GPm	GPm		GPm	GPm
10	1262	Nadaf Nafisa Akram	NAN	NAN	NAN	NAN	NAN	NAN					NAN	NAN	NAN		NAN	NAN

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FINANCE REPORT			Month: January 2025														
Sr. No.	Roll No.	Name Of The Student	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
1	1251	Dalavi Umesh Sopan	USD	USD	USD	USD		USD	USD	USD	USD	USD	USD		USD		USD
2	1252	Date Aditya Ravindra	ARD	ARD	ARD	ARD		ARD	ARD	ARD	ARD	ARD	ARD		ARD		ARD
3	1253	Davang Tushar Pratap	TPD	TPD	TPD	TPD		TPD	TPD	TPD	TPD	TPD	TPD		TPD		TPD
4	1254	Gawade Pradip Uddhav	PRD	PRD	PRD	PRD		PRD	PRD	PRD	PRD	PRD	PRD		PRD		PRD
5	1255	Jadhav Harshad Sakharan	HSD	HSD	HSD	HSD		HSD	HSD	HSD	HSD	HSD	HSD		HSD		HSD
6	1256	Jadhav Shantanu Uday	UDJ	UDJ	UDJ	UDJ		UDJ	UDJ	UDJ	UDJ	UDJ	UDJ		UDJ		UDJ
7	1257	Jadhav Sharvari Raviraj	RSJ	RSJ	RSJ	RSJ		RSJ	RSJ	RSJ	RSJ	RSJ	RSJ		RSJ		RSJ
8	1258	Kumbhar Sahil Jaywant	SKJ	SKJ	SKJ	SKJ		SKJ	SKJ	SKJ	SKJ	SKJ	SKJ		SKJ		SKJ
9	1259	Mane Gourav Popat	GPJ	GPJ	GPJ	GPJ		GPJ	GPJ	GPJ	GPJ	GPJ	GPJ		GPJ		GPJ
10	1262	Nadaf Nafisa Akram	NAN	NAN	NAN	NAN		NAN	NAN	NAN	NAN	NAN	NAN		NAN		NAN

Dr. Patangrao Kadam Mahavidyalaya
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Sr. No.	Roll No.		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
1	1251	Dalavi Umesh Sopan	U.S.D	U.S.D	U.S.D		U.S.D	U.S.P	U.S.D	U.S.D	U.S.D	U.S.D			U.S.D	U.S.D	U.S.D	U.S.D		
2	1252	Date Aditya Ravindra	A.R.D	A.R.D	A.R.D		A.R.D	A.R.D	A.R.D	A.R.D	A.R.D	A.R.D								
3	1253	Davang Tushar Pratap	U.S.D	U.S.D	U.S.D		U.S.D	U.S.D	U.S.D	U.S.D	U.S.D	U.S.D			A.R.D	A.R.D	A.R.D	A.R.D		
4	1254	Gawade Pradip Uddhav	U.S.D	U.S.D	U.S.D		U.S.D	U.S.D	U.S.D	U.S.D	U.S.D	U.S.D			U.S.D	U.S.D	U.S.D	U.S.D		
5	1255	Jadhav Harshad Sakhamam	U.S.D	U.S.D	U.S.D		U.S.D	U.S.D	U.S.D	U.S.D	U.S.D	U.S.D			U.S.D	U.S.D	U.S.D	U.S.D		
6	1256	Jadhav Shantanu Uday	U.S.D	U.S.D	U.S.D		U.S.D	U.S.D	U.S.D	U.S.D	U.S.D	U.S.D			U.S.D	U.S.D	U.S.D	U.S.D		
7	1257	Jadhav Sharvari Raviraj	U.S.D	U.S.D	U.S.D		U.S.D	U.S.D	U.S.D	U.S.D	U.S.D	U.S.D			U.S.D	U.S.D	U.S.D	U.S.D		
8	1258	Kumbhar Sahil Jaywant	U.S.D	U.S.D	U.S.D		U.S.D	U.S.D	U.S.D	U.S.D	U.S.D	U.S.D			U.S.D	U.S.D	U.S.D	U.S.D		
9	1259	Mane Gourav Popat	U.S.D	U.S.D	U.S.D		U.S.D	U.S.D	U.S.D	U.S.D	U.S.D	U.S.D			U.S.D	U.S.D	U.S.D	U.S.D		
10	1262	Nadaf Nafisa Akram	U.S.D	U.S.D	U.S.D		U.S.D	U.S.D	U.S.D	U.S.D	U.S.D	U.S.D			U.S.D	U.S.D	U.S.D	U.S.D		

Rayat Shikshan Sanstha S

Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)

Short Term Course

Department of Geography

2024-2025

"SOIL TESTING AND ANALYSIS"

TIME TABLE

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
10:30 to 11:30	Mr. Gawari D. P. (Pract.)	Mr. Gawari D. P. (Pract.)	Mr. Gawari D. P. (Pract.)	--	Mrs. Madavi A. B. (Pract.)	Mrs. Madavi A. B. (Pract.)
11:30 to 12:30	Mrs. Madavi A. B.	Mrs. Madavi A. B. (Pract.)	--	Mr. Gawari D. P. (Pract.)	Mr. Gawari D. P. (Pract.)	--
12:30 to 01:30	Mr. Maske S. A.	--	Mr. Maske S. A. (Pract.)	--	--	Mr. Maske S. A.



Short term course co-ordinator



Head, Department of Geography
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)



Principal,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)
Tal. Palus, Dist. Sangli.



"Education through Self-Help is our Motto." – Karmaveer
Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Tal: Palus, Dist: Sangli, Pin: 416 308

Short Term Course 2024-2025

"SOIL TESTING AND ANALYSIS"
CERTIFICATE

This is to certify that Shri. / Smt.----- of Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) participated Short Term Course entitled "Soil Testing and analysis" Organized by Department of Geography, Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) from Month of December 2024 to January 2025.

Coordinator

Head of the Department
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)


Principal,
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Tal: Palus, Dist: Sangli, Pin: 416 308

Short Term Course 2024-2025

"SOIL TESTING AND ANALYSIS"

CERTIFICATE

This is to certify that Shri. / Smt. *Nadaf Nafisa Akram* of Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) participated Short Term Course entitled "Soil Testing and analysis" Organized by Department of Geography, Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) from Month of December 2024 to January 2025.


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