Bharatiya Shikshan Prasarak Sanstha, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Internal Quality Assurance Cell

CRITERION 3- RESEARCH, INNOVATIONS & EXTENSION

3.5.1. The number MOUs, Collaborations/linkages for Faculty exchange, Internship, Field Project, On-the-job training, research and other academic activities during the last five years

MOU/Collaboration WISE Activities

2018-23

DVV Clarification

MOU/Collaboration Wise activities 2018-2023

Sr. No.	Department	MOU/Collaborating Partners	Title of the collaborative activity	Date of Activity	Year of Collaboration	Duration	Type of Collaboration
1	Department of Sanskrit	Jawahar Arts,Science & Commerce College, Andur	Sanskrut Kavya Vimarsh Karyashala	13/09/2022	2017	3 years	Faculty Exchange
2	Department of History	Itihas Sankalan sanstha Maharashtra	Prabhu Shriram Charitra-Kalachi Garaj	30/03/2023	2023	5 years	Organization of seminar
		Itihas Sankalan sanstha Maharashtra	Felicitation of freedom fighter's Wife	05/01/2023	2023	5 years	Visit organization
3	Department of Sports	Champawati Krida Mandal, Beed	Availing sports facilities	29/08/2022	2022	5 years	Sharing of Resources (facilities)
4	Department of Chemistry	Analytical Chemistry Teacher's Association, Aurangabad	Prafulla Chandra Ray Lecture series	22/12/2022 To 24/12/2022	2022	5 years	Organization of lecture series
			Complexation of La(III) Metal Ion with Novel Schiff Bases, Thermodynamic Study, Journal of Advanced Scientific Research Volume 12, Issue-2, Supply 2, Page No. 133-136 Available online through , http://www.sciensage.info, ISSN: 0976-9595, July 2021 .	July 2021	2017	5 years	Research publication
			Thermodynamic Study Of Formation Of Zinc Complexes Carrying Novel Schiff Bases In Mixed Solvent Media; Journal of Advances in Applied Sciences and Technology (2022) Vol. 8|Issue 1| Page 91-96, ISSN NO:2393-8188(print), 2393-8296(online) (2022).	2022	2017	5 years	Research publication
			Thermodynamics of the formation of divalent Copper complexes carrying novel Schiff bases in mixed solvent media; Journal of Interdisciplinary Cyclic Research Volume XIII, Issue-IV, Page No. 53-61, ISSN: 0022-1945, April/2021.	April 2021	2017	5 years	Research Publication
			Studies of complexation of trivalent rare earth metal ion Cerium with novel Schiff bases: Thermodynamic Aspect; The International Journal of analytical and experimental modal analysis, Volume XIII, Issue IV, Page No 74-80; ISSN: 0886-0367; April/2021.	April 2021	2017	5 years	Research Publication

Swa.Sawarkar Mahavidyalaya.Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

5	Department of Chemistry	Department of Chemistry , Milliya College, Beed	Complexation of La(III) Metal Ion with Novel Schiff Bases, Thermodynamic Study, Journal of Advanced Scientific Research Volume 12, Issue-2, Supply 2, Page No. 133-136 Available online through , http://www.sciensage.info, ISSN: 0976-9595, July 2021 .	July 2021	2017	5 Years	Research Publication
			Thermodynamic Study Of Formation Of Zinc Complexes Carrying Novel Schiff Bases In Mixed Solvent Media; Journal of Advances in Applied Sciences and Technology (2022) Vol. 8|Issue 1| Page 91-96, ISSN NO:2393-8188(print), 2393-8296(online) (2022).	2022	2017	5 Years	Research Publication
			Thermodynamic Studies of transition Andrare Earth Metal Ions with Schiff Base in 50% (V/V) Ethanol-Water Mixture	2020	2017	5 Years	Research Publication
			Thermodynamics of the formation of divalent Copper complexes carrying novel Schiff bases in mixed solvent media; Journal of Interdisciplinary Cyclic Research Volume XIII, Issue-IV, Page No. 53-61, ISSN: 0022-1945, April/2021.	April 2021	2017	5 Years	Research Publication
			Studies of complexation of trivalent rare earth metal ion Cerium with novel Schiff bases: Thermodynamic Aspect; The International Journal of analytical and experimental modal analysis, Volume XIII, Issue IV, Page No 74-80; ISSN: 0886-0367; April/2021.	April 2021	2017	5 Years	Research Publication
			Mixed ligand complexes of Cadmium metal ion with diphenhydramine and amino acids in aqueous media; Research Journey International Multi-disciplinary E-Research Journal, October-2019.	October-2019	2017	5 Years	Research Publication
			Study of complexation of divalent transition and trivalent lanthanide metal ions with Sciff's Base 2-Hydroxy-5-bromo- acetophenone-N-(2-Chloro-5-nitrophenyl) imine: thermodyanamic aspect; Journal of Global Resources Volume 5 (02) July 2019.	July 2019	2017	5 Years	Research Publication

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S Ambajogai

Principal
Swa. Sawarkar Mahavidyalaya,
Beed.

			Student's participation in attainment of graduate attributes; Research Journey International Multi-disciplinary E-Research Journal, October-2019.	October-2019	2017	5 Years	Research Publication
			Thermodynamic study of Complexation of transition metal ions with Schiff Base 2-Hydroxy 5-bromo Acetophenone –N-(4-Methyl phenyl)Imine in 50%(V/V)ethanol-water medium JOURNAL OF GLOBAL RESOURCES Biannual International peer Reviewed Journal UGC-CARE Listed Journal in Group D; ISSN: 2395-3160(print)Volume 5(02)1,p. No.220-223;	14/08/2017	2017	5 years	Research publication
			Potentiometric investigation of complexation of Benazepril drug with alkaline earth metal ions in aqueous media ; Journnal of Research and Development A Multidisiplinary International Journal, Volume 10,Special Issue02,Janury 2020; ISSN: 2230-9578, P. No. 40-42; 21, January 2020.	January 2020	2017	5 years	Research publication
			Thermodyanamic studies of transition metal Ions with Sciff base in 50% (V/V) Ethanol-Water system. Journal of research and Development, Volume 10, Special Issue 02 (2020).	2020	2017	5 years	Research Publication
			Guest Lecture	18 /09/2018	2017	5 years	Faculty Exchange
6	Department of Chemistry	Balbhim College Beed	Study of complexation of divalent transition and trivalent lanthanide metal ions with Sciff's Base 2-Hydroxy-5-bromo- acetophenone-N-(2-Chloro-5-nitrophenyl) imine: thermodyanamic aspect; Journal of Global Resources Volume 5 (02) July 2019.	July 2019.	2017	5 years	Research publication
			Mixed ligand complexes of Cadmium metal ion with diphenhydramine and amino acids in aqueous media; Research Journey International Multi-disciplinary E-Research Journal, October-2019.	2019-20	2017, 2017-18,2021-22,2022	5 years, 1 year, 5 years	Research publication
			Stability study of complexation of transition metals with Sciff Base 2-Hydroxy-5-bromoacetophenone-N-(4-methoxyphenyl) imine: thermodyanamic aspects; Research Journey International Multi-disciplinary E-Research Journal, March-2019.	2018-19	2017	5 years	Research publication

Swa.Sawarkar Mahavidyalaya,Beed B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

7	Department of Chemistry	K.S.K. College, Beed	Prafulla Chandra Ray Lecture series	22/12/2022	2022-23 To 2027-28	5 years	Research publication
8	Department of Chemistry	Students for Holistic Development for Humanity(SHODH), Maharashtra	7 Days online lecture Series- General Aptitude(part A CSIR-NET)	15-24 Jan, 2022	2023	2027-28	Organization of Extension Activity
9	Swa. Sawarkar College, Beed	Janshikshan Sansthan, Beed	Mahila Udyojak Melava	22/11/2022	2022	5 years	Organization of Event-Melava
			Assistant Dress Maker-Tailoring Diploma	08/12/2022 (3 Months Course)	2022	5 years	Using resources, Exchange of Faculties
			Plumbing, Rain Water Harvesting Corse for Girls	25/1/2023 (3 Months Course)	2022	5 years	Using resources, Exchange of Faculties
10	Department of Political Science	Terna Radio Station, Osmanabad	Interview on Terna Radio, Divyang Din	03/12/2022 04/12/2022	2022	3 years	Faculty Exchange
			Speech on Terna Radio, Dr. B.R. Ambedkar Mahaparinirman Din	06/12/2022 07/12/2022	2022	3 years	Faculty Exchange
			Speech on Rashtramata Jijau Jayanti	12/01/2023	2022	3 years	Faculty Exchange
			Interview of IPS Nilesh Gaikwad	07/04/2023	2022	3 years	Organization of Event
11	Department of Psychology	Mauli Mind Care Hospital, Beed	Psychological Counseling	2022-23	2007	Until Modified	Counseling/ Treatment to patients (48 Patients)
			Psychological Counseling	2019-20	2007	Until Modified	Counseling/ Treatment to patients (42 Patients)
			Psychological Counseling	2018-19	2007	Until Modified	Counseling/ Treatment to patients (32 Patients)
12	Department of Hindi	Shri. Siddheshwar Mahavidyalaya,	Chief Guest Lecture on Hindi Diwas (14/9/2022)	14/9/2022	2021	5 years	Faculty Exchange

Principal
Swa.Sawarkar Mahavidyalaya

		Majalgaon	Chief Guest Lecture on Hindi Diwas (15/9/2022)	15/9/2022	2021	5 years	Faculty Exchange
13	Library & Information Center	Library & Information Center,Kholeshwar Mahavidyalaya, Ambajogai	Inter Loan Facility (Library)	2022-23 2018-19	2023	Until Modified	Book Loan
14	Library & Information Center	Library & Information Center,Siddheshwar Mahavidyalaya, Majalgaon	Inter Loan Facility (Library)	2022-23	2023	Until Modified	Book Loan
15	Library & Information Center	Library & Information Center, Milliya College, Beed	Inter Loan Facility (Library)	2021-22 2020-21	2020	Until Modified	Book Loan
16	Library & Information Center	Pradnyachakshu Andh vidyalaya, Beed	Inter Loan Facility (Library)	2019-20	2018	Until Modified	Brail Book Loan
17	Library & Information Center	Hedgewar Sarvajanik Wachnalay, Beed	Inter Loan Facility (Library)	2021-22 2020-21	2020	5 years	Book Loan
18	Department of Sociology	Saksham, Deogiri Prant	Divyang Mata Sanman Sohala	14/03/2023	2023	5 years	Extension Activity
19	Department of Computer Science	Yogeshwari Mahavidyalaya, Ambajogai	Guest Lecture	13/04/2022 19/01/2022	2018	5 years	Faculty Exchange
20	Department of Zoology	Collaborations with Maharashtra Fish Seed Production Center Kesapuri Tq- Majalgaon Dist -Beed	Field Visit	07/04/2022	2010	Until Modified	Field Visit
21	Department of Physics	Crystal growth Research Laboratory, Milliya College, Beed	Optimization of Aluminum Doping Concentration in Titanium Dioxide Nano-particles Photo Anode for Enhancing Efficiency of Dye-Sensitized Solar Cell	2020-21	2017-2022 & 2022-2027	5 years	Research Publication
			Integrity in linear and nonlinear optical properties of L-tyrosine doped bis thiourea cadmium acetate single crystal	2020-21	2017-2022 & 2022-2027	5 years	Research Publication
			Role of dopant L-Methionine concentration in modifying optical properties of parent Zinc Thiourea Sulphate Nonlinear crystal	2020-21	2017-2022 & 2022-2027	5 years	Research Publication
			Focusing Nonlinear Optical Traits of Parent & L-	2020-21	2017-2022 &	5 years	Research

Swarkar Mahavidyalaya, Beed B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,

			Tryptophan Doped Bis Thiourea Cadmium Acetate (TR-BTCA) Crystal for NLO		2022-2027		Collaboration
			Low Cost Carbon Cathode For Nature Dye Sensitized Solar Cell	2019-20	2017-2022 & 2022-2027	5 years	Research publication
			Exploring the impressive nonlinear optical and dielectric properties of cadmium thiourea acetate crystal doped with oxalic acid	2019-20	2017-2022 & 2022-2027	5 years	Research publication
			Studies on optical properties of Potassium Chloride doped Bis Thiourea Cadmium Acetate Crystals	2019-20	2017-2022 & 2022-2027	5 years	Research publication
			Evaluation Of Optical Traits Of Urea Doped Thiourea Zinc Sulphate (U-ZTS) Metal Complex Crystal For NLO Applications	2019-20	2017-2022 & 2022-2027	5 years	Research publication
			Focusing Growth and Characterization Studies of Potassium Chloride (KCL) doped Bis thiourea Cadmium Acetate (BTCA) Single Crystals	2019-20	2017-2022 & 2022-2027	5 years	Research publication
			Tuning optical properties of cadmium thiourea acetate nonlinear optical crystal exploiting organic ligand of L-proline	2018-19	2017-2022 & 2022-2027	5 years	Research Publication
			Illustrious influence of amino acid L-threonine(LT) on structural and optical insights of Zinc Thiourea Sulphate (ZTS) crystal"	2018-19	2017-2022 & 2022-2027	5 years	Research Publication
			Crystal growth, spectral, optical and thermal studies of thiourea ammonium acetate doped potassium dihydrogen phosphate crystal for NLO applications	2018-19	2017-2022 & 2022-2027	5 years	Research Publication
			Magnificent transmutation in optical traits due to methionine doping on zinc thiourea sulphate (zts) metal complex crystal	2018-19	2017-2022 & 2022-2027	5 years	Research Publication
			Focusing superiority of s-r method grown crystal over conventionally grown thiourea zinc acetate (tza) metal complex crystal	2018-19	2017-2022 & 2022-2027	5 years	Research Publication
22	Department of Mathematics	R. B. Attal College, Gevrai & Dept. of Mathematics, Swa. Sawarkar Mahavidyalaya, Beed	Rotating Fluid Magneto Hydrodynamics flow Past an impulsively Started Infinite Vertical Plate	Dec, 2020	2018	5 years	Research Publication
			Solution of dissipative fluid flow of an Impulsively Started Infinite Vertical Plate	Feb,2020	2018	5 years	Research Publication
23	Department of Mathematics	Marathwada Mathematical Society	17th Regional Level Seminar/competition	05/02/2019	Nil	Nil	Organization of Event

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

24	Department of Microbiology	Microbiological society India	Microbiology Rangoli Competition	14/08/2019	2017	5 years	Organization of Events
25	Department of English	English Educators Society, Morewadi	Online Seminar- Marginal Literature in Current Era	26/11/2022	2022-23	2022-23	Faculty Exchange
26	Department of English	Milliya College, Beed	Online Seminar-Changing Face of English in Global	30/01/2022	2022-23	2022-23	Faculty Exchange
27	Home Science	Jai Bhavani College, Gadhi Tal. Georai	Awareness Program on Grassy Grain Food Diet (Trun Dhanya)	20/02/2023	2019	30/06/24	Faculty Exchange

Swa. Sawarkar Mahavidyalaya, Beed
B.S.P.S
Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा.सावरकर महाविद्यालय,बीड

व

जवाहर कला,विज्ञान व वाणिज्य महाविद्यालय,अणदूर

संस्कृत विभाग

यांच्या संयुक्त विद्यमाने आयोजित

संस्कृत काव्य-विमर्श कार्यशाळा (online)

दि. १३.०९.२०२२

वेळ: सायंकाळी ०५वाजता

काव्यं यशसे अर्थकृते व्यवहारविदे शिवेतरक्षतये।
सद्यः परनिर्वृतये कान्तासम्मिततयोपदेशयुजे॥

भारतीय शिक्षण प्रसारक संस्था अंबाजोगाई संचलित स्वा. सावरकर महाविद्यालयाची स्थापना जून १९९५ रोजी झाली. १९९५ पासूनच महाविद्यालयात संस्कृत विषय सुरू आहे. डॉ.बाबासाहेब आंबेडकर मराठवाडा विद्यापीठांतर्गत संस्कृत विषयांमध्ये सर्वाधिक शिक्षण घेणारे विद्यार्थी हे या महाविद्यालयाचे वैशिष्ट्य आहे. महाविद्यालयातील अनेक विद्यार्थी विद्यापीठामधील गुणवत्ता यादीत आले आहेत. संस्कृत विभागाच्या वतीने १४ मार्च २०२० रोजी महाविद्यालयामध्ये "संस्कृत-मराठी ऋणानुबंध" या विषयावर राष्ट्रीय चर्चासत्राचे आयोजन करण्यात आले. संस्कृत भाषेचा प्रचार प्रसार व्हावा या हेतूने महाविद्यालयातील संस्कृत विभागाकडून संस्कृत संबंधित विविध उपक्रमांचे आयोजन करण्यात येते. त्यामध्ये संस्कृत नाटिका, संस्कृत गीत,परिसंवाद,चर्चासत्र इत्यादी.

प्राचीन भारतीय वैज्ञानिक परंपरेची ओळख तसेच वेद,दर्शन,व्याकरण,साहित्य यांचा परिचय व्हावा. संस्कृत मधील ग्रंथाच्या अभ्यासाची गोडी निर्माण होण्यासाठी विविध चर्चासत्रांचे आयोजन केले जाते. भारतातील अनेक संस्कृत विषयाच्या विद्वान व्यक्तींना आमंत्रित केले जाते व त्यांचे मार्गदर्शन विद्यार्थ्यांना लाभते याच अनुषंगाने संस्कृत मधील काव्य ग्रंथांचा परिचय करून देणारी कार्यशाळा

Dr. Sachin Kandale
Head, Department of Sanskrit
Swa.Sawarkar Mahavidyalaya, Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

जवाहर कला,विज्ञान व वाणिज्य महाविद्यालय,अणदूर यांच्या संयुक्त विद्यमाने संस्कृत काव्य-विमर्श कार्यशाळेचे आयोजन करण्यात आले. या कार्यशाळेचा हेतू विद्यार्थ्यांना मम्मटकृत काव्यप्रकाश, विश्वनाथकृत साहित्यदर्पण, आनंदवर्धननिर्मित ध्वनालोक, दशरूपक इत्यादी लक्षणग्रंथाचा परिचय विद्यार्थ्यांना होण्यासाठी विभागाच्या वतीने दिनांक १३/०९/२०२२ या दिवशी संस्कृत काव्य-विमर्श कार्यशाळा गुगल-मीट माध्यमाद्वारे आयोजन करण्यात आली. कार्यशाळेची सुरुवात सरस्वती वंदनाचे गायन करून झाली गायन लक्ष्मी कदम हिने केले. या कार्यशाळेचे प्रास्ताविक संस्कृत विभाग प्रमुख डॉ.सचिन कंदले यांनी केले. संस्कृत काव्य-विमर्श या विषयावर मार्गदर्शन करण्यासाठी प्रमुख वक्ते म्हणून जवाहर कला,विज्ञान व वाणिज्य महाविद्यालय,अणदूर संस्कृत विभाग प्रमुख डॉ.सत्येंद्र राउत हे लाभले. या कार्यशाळेला अध्यक्ष म्हणून स्वा.सावरकर महाविद्यालयाचे प्रभारी प्राचार्य डॉ.देविदास नागरगोजे हे होते. व आभार प्रदर्शन प्रा.आनंद रत्नपारखे व कार्यशाळेची सांगता वैदिक मंत्र पठणाने झाली याचे पठण ऋषिकेश लाखे यांनी केले.

दि.१३/०९/२०२२ रोजी आयोजित संस्कृत काव्य-विमर्श कार्यशाळेचे प्रास्ताविक करताना संस्कृत विभाग प्रमुख डॉ.सचिन कंदले

दि.१३/०९/२०२२ रोजी आयोजित संस्कृत काव्य-विमर्श कार्यशाळेमध्ये उपस्थितांना मार्गदर्शन करताना प्रमुख वक्ते डॉ.सत्येंद्र राउत

Dr. Sachin Kandale
Head, Department of Sanskrit
Swa.Sawarkar Mahavidyalaya, Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

दि.१३/०९/२०२२ रोजी आयोजित संस्कृत काव्य-विमर्श कार्यशाळेचा अध्यक्षीय समारोप करताना महाविद्यालयाचे प्राचार्य डॉ.देविदास नागरगोजे

दि.१३/०९/२०२२ रोजी आयोजित संस्कृत काव्य-विमर्श कार्यशाळे मध्ये उपस्थितांचे आभार मानताना प्रा.आनंद रत्नपारखे

दि.१३/०९/२०२२ रोजी आयोजित संस्कृत काव्य-विमर्श कार्यशाळेमध्ये उपस्थित श्रोतृवर्ग

Dr. Sachin Kandale
Head, Department of Sanskrit
Swa.Sawarkar Mahavidyalaya, Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

दि.१३/०९/२०२२ रोजी संस्कृत विभाग द्वारा आयोजित संस्कृत काव्य-विमर्श कार्यशाळेची आमंत्रण पत्रिका

गूगलमीट लिंक :

संस्कृत काव्य-विमर्श कार्यशाळा

Friday, 13 September 4:45 – 5:45pm

Time zone: Asia/Kolkata

Google Meet joining info :

Video call link: https://meet.google.com/goh-ufdf-dyf

समन्वयक
Dr. Sachin Kandale
Head, Department of Sanskrit
Swa.Sawarkar Mahavidyalaya, Beed

सहसमन्वयक
प्रा.आनंद रत्नपारखे
प्रा.कृष्ण रामदासी

डॉ. Principal
Swa.Sawarkar Mahavidyalaya,
स्वा.सावरकर महाविद्यालय,बीड

समन्वयक
डॉ.सत्येंद्रराऊत
संस्कृत विभाग प्रमुख
Dr. Satyendra Sangappa Raut
HOD, SANSKRIT
Jawahar ASC College, Andur,
Tq. Tuljapur, Dist. Osmanabad (Maharashtra)

डॉ.उमाकांत चनशेट्टे
प्राचार्य
जवाहर कला,विज्ञान व वाणिज्य महाविद्यालय,अणदूर
Principal
Jawahar Arts, Science & Commerce College
Anadur, Tal. Tuljapur, Dist. Osmanabad.

2022-23
Dept. of History (2)

Bhartiya Shikshan Prasarak Sanstha Ambajogai
Swa.Sawarkar Mahavidyalaya Beed
Department of History
and
Itihas Sankalan Sanstha Maharashtra

MOU Collaboration Activity Information:

Title :	Prabhu Shriram Charitra – Kalachi Garaj
Date and Time :	30 March 2023 10 : 00 A.M.
Organizer:	Department of History and Itihas Sankalan Sanstha Maharashtra
Resource Person:	Shri. Bhaskarrao Bramhanathkar Bhartiya Iitihas Sankalan Samiti Devgiri Prant ,Sanghatan Sachiv ,Sadasya Itihas Sankalan Samiti Maharashtra
Outcome :	Students became aware of Indian customs, culture, religion and social commitment.

Swa.Sawarkar Mahavidyalaya, Beed
B.S.P.S.
Ambajogai

अध्यक्ष सचिव
इतिहास संकलन संस्था कक्षा,
ता.आष्टी, जि.बीड.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

भा.शि.प्र.संस्था, अंबाजोगाई
स्वा. सावरकर महाविद्यालय, बीड
सावरकर नगर, नेत्रधाम हॉस्पीटल समोर,
जालना रोड, बीड-४३११२२
नॅक समितीतर्फे 'ब' दर्जा प्राप्त

B.S.P.Sanstha Ambajogai
Swa. Sawarkar Mahavidyalaya
Beed-431122
NACC Re-accredited ' B ' Grade
Phone : 02442-295459
Email-veersawarkarbeed@gmail.com
Web Site : sawarkar.co.in

Principal Dr. Priti D. Pohekar
M.A.,SET, M.Phil, Ph.D.

जा. क्र : स्वासामवि / २०२२-२०२३/ 384-1 दिनांक : ०२/०२/२०२३

प्रति,
मा. अध्यक्ष,
डॉ. राधाकृष्णजी जोशी,
इतिहास संकलन संस्था, देवगिरी प्रांत,
महाराष्ट्र

विषय :- इतिहास संकलन संस्था देवगिरी प्रांत महाराष्ट्र बरोबर M.O.U(सामंजस्य करार) करणे बाबत.

महोदय,

स्वा. सावरकर महाविद्यालय बीड, इतिहास विभागांतर्गत इतिहास संकलन संस्था, देवगिरी प्रांत, महाराष्ट्र यांच्या बरोबर M.O.U(सामंजस्य करार) करणे आहे. तरी यासाठी आपली परवाणगी व सहकार्य मिळावे. हि विनंती.

धन्यवाद !

आपली विश्वासू

डॉ. सुमिता शं. कुरुडे
इतिहास विभाग प्रमुख,
स्वा.सावरकर महाविद्यालय, बीड

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Swa.Sawarkar Mahavidyalaya Ambajogai Beed

अध्यक्ष कोषाध्यक्ष सचिव
इतिहास संकलन समिती, जि. बीड
०८/२०२३

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

भारतीय गैर न्यायिक

एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

भारत INDIA

INDIA NON JUDICIAL

महाराष्ट्र MAHARASHTRA ◑ 2022 ◑ 10AA 615609

परिपत्र -1 (Annexure 1)

जिल्हा कोषागार कार्यालय बीड 2 0 FEB 2023 मुद्रांक प्रमुख लिपिक कोषागार कार्यालय,बीड

रा.प. केदार
मुद्रांक विक्रेता
तहसिल आवार बीड प.क्र.८८

Memorandum of Understanding

Between

Dpt. Of History, Swa. Sawarkar Mahavidhalaya, Beed

And

Itihas Sankalan Sanstha Maharashtra

Objectives of MoU:

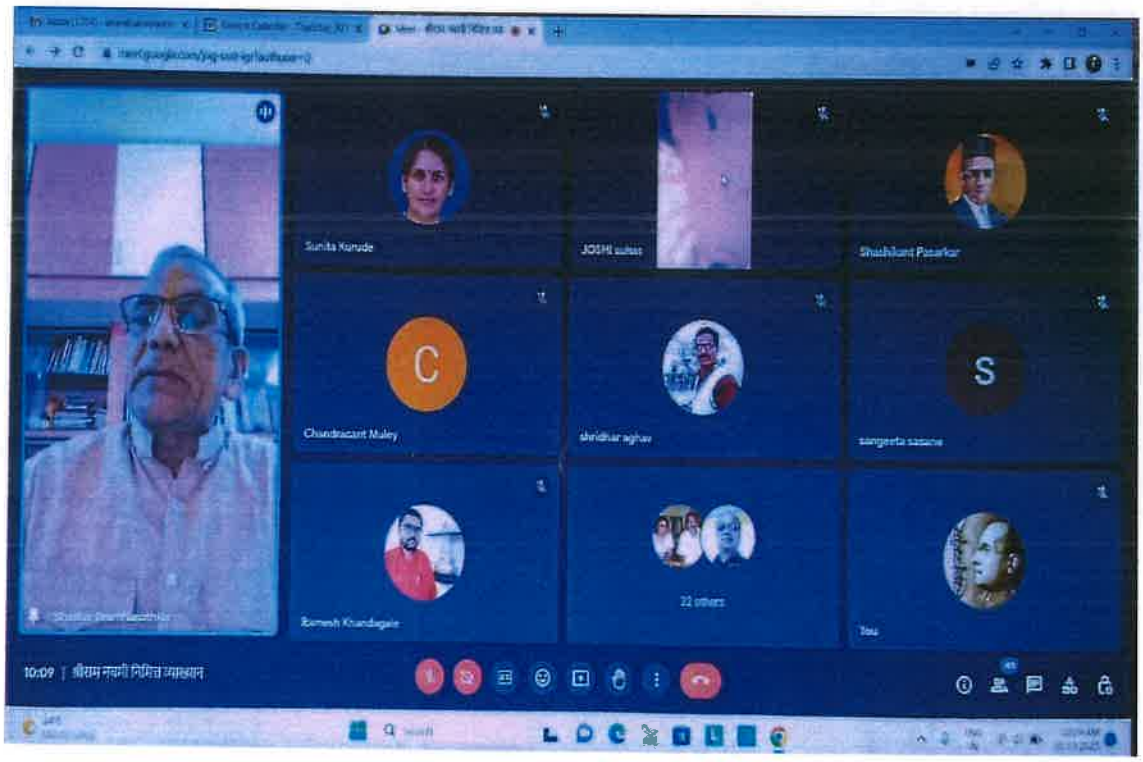
1) To visit historical peripheries of the Maharashtra and observe the historical monuments.
2) To guide the students of Dept. of History, Swa. Sawarkar Mahavidhalaya, Beed to preserve historical monuments and to inculcate in our students the awareness about the importance of monuments and its preservation.

AGREEMENT DEPT. OF HISTORY & ITIHAS SANKALAN SANSTHA MAHARASHTRA DT 20/02/2023

अध्यक्ष कोषाध्यक्ष सचिव
इतिहास संकलन संस्था कडा,
ता.आष्टी, जि.बीड.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

MOU DEPARTMENT OF HISTORY & ITIHAS SANKALAN SANSTHA MAHARASHTRA Dt. 20/02/2023



GUEST LECTURE- RESOURCES PERSON SHRI. BHASKARRAO BRAMHANATHKAR DT. 30/03/2023

अध्यक्ष कोषाध्यक्ष सचिव
इतिहास संकलन संस्था कडा,
ता.आष्टी, जि.बीड.

Swa.Sawarkar Mahavidyalaya, Beed.

भा शि प्र संस्था, अंबाजोगाई संचालित

स्वा.सावरकर महाविद्यालय,बीड

"अखिल भारतीय इतिहास संकलन योजना, दिल्ली
संलग्न इतिहास संकलन संस्था महाराष्ट्र प्रांत
आणि
स्वा. सावरकर महाविद्यालय, बीड, इतिहास विभाग यांच्या संयुक्त विद्यमाने"

श्रीरामनवमी निमीत्त व्याख्यान- प्रभु श्रीराम चरित्र-काळाची गरज

कार्यक्रम पत्रिका

दिनांक : ३०.०३.२०२३ वेळ : स १०.०० वा

• अध्यक्षा	:	प्राचार्या डॉ. प्रिती पोहेकर
• प्रमुख वक्ते	:	मा. श्री. भास्करराव ब्रम्हनाथकर, परभणी
• प्रमुख अतिथी	:	१) मा. प्रा. चंद्रकांतजी मुळे (प्रशासकीय अधिकारी भा.शि.प्र. संस्था तथा अध्यक्ष, महाविद्यालय समिती, बीड) २) मा. डॉ. विवेकजी पालवणकर (स्थानिक कार्यवाह सावरकर संकुल, बीड) ३) मा. डॉ. राधाकृष्णजी जोशी (प्रांताध्यक्ष तथा संघटन सचिव म.प्रां. इतिहास संकलन संस्था महाराष्ट्र प्रांत)
•मान्यवरांचे स्वागत	:	
• प्रास्ताविक व परिचय	:	प्रा. डॉ. सुनिता कुरुडे
• प्रमुख मार्गदर्शन	:	मा. श्री. भास्करराव ब्रम्हनाथकर
• अध्यक्षीय समारोप	:	प्राचार्य डॉ. प्रीती पोहेकर
• आभार प्रदर्शन	:	प्रा. डॉ. वैशाली पाटील
• सूत्र संचलन	:	प्रा. डॉ. सुनिता कुरुडे
•शांती मंत्राने सांगता	:	प्रा. आनंद रत्नपारखी
• आयोजक	:	स्वा. सावरकर महाविद्याल बीड, इतिहास विभाग इतिहास संकलन संस्था महाराष्ट्र प्रांत

अध्यक्ष कोषाध्यक्ष सचिव
इतिहास संकलन संस्था कक्ष,
ता.आष्टी, जि.बीड.

Swa.Sawarkar M. B.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

अखिल भारतीय इतिहास संकलन योजना, दिल्ली
संलग्न इतिहास संकलन संस्था, महाराष्ट्र प्रांत
आणि
भा.शि.प्र. संस्था, स्वा. सावरकर महाविद्यालय, बीड
इतिहास विभाग यांच्या संयुक्त विद्यमाने

श्रीरामनवमी निमित्त व्याख्यान
प्रभू श्रीराम चरित्र - काळाची गरज

मा. भास्करराव ब्रम्हनाथकर (परभणी)
(प्रमुख वक्ते)

अध्यक्षा :- **प्राचार्य डॉ. प्रीती पोहेकर** (स्वा. सावरकर महाविद्यालय, बीड)

प्रमुख अतिथी :- **मा. प्रा. चंद्रकांतजी मुळे** (प्रशासकीय अधिकारी, भा.शि.प्र. संस्था तथा अध्यक्ष, महाविद्यालय, समिती, बीड.
मा. डॉ. विवेकजी पालवणकर (स्था. कार्यवाह, सावरकर संकुल, बीड)
मा. डॉ. राधाकृष्णजी जोशी (प्रांताध्यक्ष तथा संघटन सचिव, पश्चिम क्षेत्र, इतिहास संकलन संस्था, महाराष्ट्र प्रांत)

:: विनित ::

प्रा. डॉ. सुनिता कुरूडे
(इतिहास विभाग)
स्वा. सावरकर महाविद्यालय, बीड

प्रा. शशिकांत पसारकर
सचिव
इतिहास संकलन संस्था
महाराष्ट्र प्रांत.

गुरूवार दि. 30 मार्च 2023, वेळ सकाळी : 10.00 वाजता

संपर्क : प्रा. डॉ. सुनिता कुरूडे, मो.नं. 7588852624
प्रा. डॉ. वैशाली पाटील, मो.नं. 8329338727

https://meet.google.com/jog-sxxt-igr

अध्यक्ष कोषाध्यक्ष सचिव
इतिहास संकलन संस्था कक्ष,
ता.आष्टी, जि.बीड.

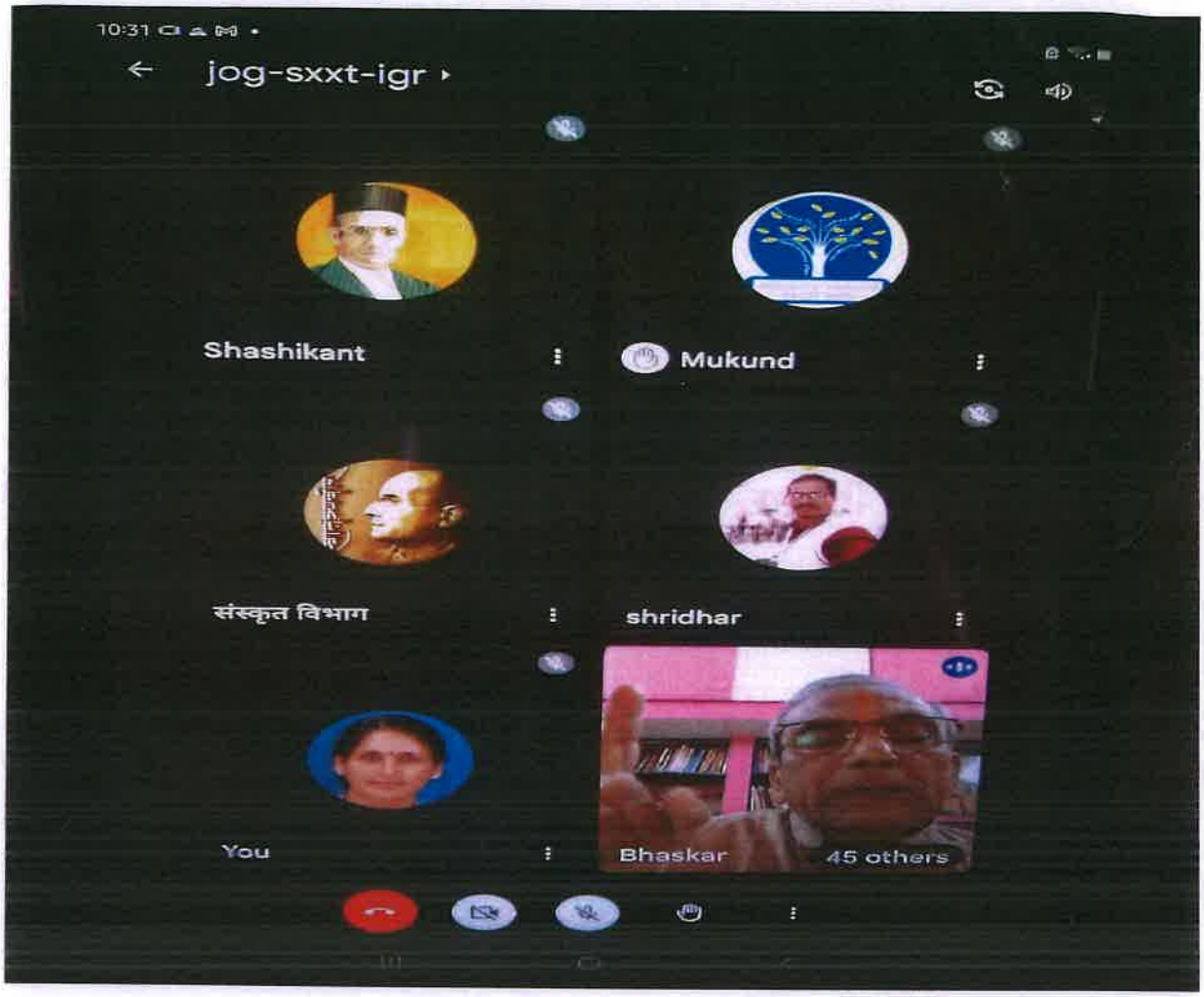
Swa.Sawarkar Mahavidyalaya,Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

अध्यक्ष कोषाध्यक्ष सचिव
इतिहास संकलन संस्था बीड,
ता.आष्टी, जि.बीड.

Swa.Sawarkar Mahavidyalaya Beed. B.S.P.S Ambajogai

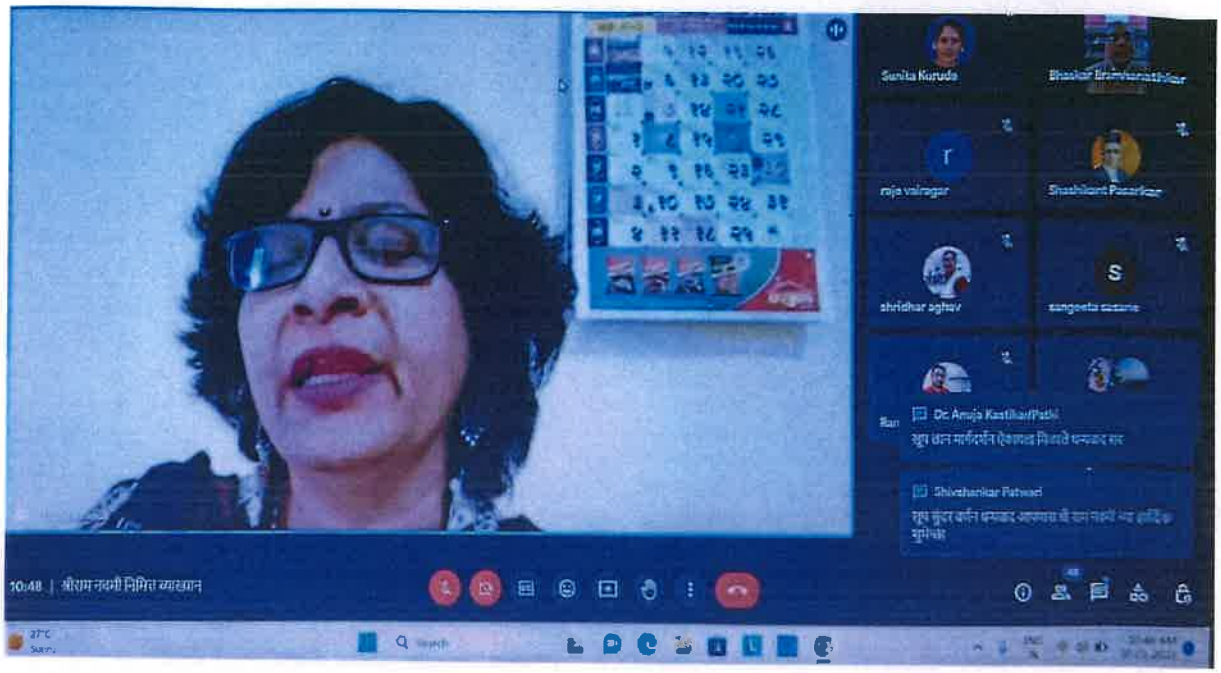
Principal
Swa.Sawarkar Mahavidyalaya,
Beed.



Swa. Sawarkar Mahavidyalaya, Beed
B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

अध्यक्ष कोषाध्यक्ष सचिव
इतिहास संकलन संस्था कक्ष,
ता.आष्टी, जि.बीड.



प्रभु श्रीरामाचे चरित्र विद्यार्थ्यांनी अंगीकारावे :ब्रह्मनाथकर

...त्यांना जिल्हाधिकारी यांनी सहमती दर्शवली

बीड / प्रतिनिधी : आजच्या काळात आदर्श आणि प्रेरक अशा प्रभू श्रीरामचरित्रातून विद्यार्थ्यांनी बोध घेऊन त्यांचा अंगीकार करावा असे प्रतिपादन भारतीय इतिहास संकलन समिती देवगिरी प्रांताचे संघटन सचिव तथा इतिहास संकलन समिती महाराष्ट्र प्रांताचे सदस्य भास्करराव ब्रम्हनाथकर यांनी केले.

स्वा.सावरकर महाविद्यालय बीड, इतिहास विभाग आणि इतिहास संकलन संस्था महाराष्ट्र प्रांत यांच्या संयुक्त विद्यमाने दि.३० मार्च रोजी श्री रामनवमी निमित्त आभासी तंत्र पद्धतीने आयोजित कार्यक्रमात ते बोलत होते. अध्यक्षस्थानी महाविद्यालयाच्या प्राचार्या डॉ. प्रीती पोहेकर या होत्या तर प्रमुख अतिथी म्हणून भारतीय शिक्षण प्रसारक संस्थेचे प्रशासकीय अधिकारी तथा महाविद्यालय समितीचे अध्यक्ष प्रा. चंद्रकांत मुळे तसेच डॉ. विवेकजी पालवणकर आणि इतिहास संकलन संस्था महाराष्ट्र प्रांताचे प्रांताध्यक्ष तथा पश्चिम क्षेत्र महाराष्ट्र प्रांताचे संघटन सचिव डॉ. राधाकृष्ण जोशी, प्रा. शशिकांत पसारकर, डॉ. शांता जाधवर, डॉ.लक्ष्मीकांत बाहेगव्हाणकर, डॉ. राजेश ढेरे अधीक्षक डॉ. प्रशांत कुलकर्णी यांची उपस्थिती होती. पुढे बोलताना भास्करराव ब्रम्हनाथकर यांनी रामराज्याविषयी आपले मत व्यक्त करून भारतीय संस्कार, संस्कृती, धर्म यांच्या अनुषंगाने श्रीरामांनी आपल्या जीवन प्रसंगातून जो आदर्श भारतीयांपुढे ठेवला त्यातून प्रेरणा घेऊन विद्यार्थ्यांनी आपले सुसंस्कारित जीवन घडवावे, तसेच श्रीरामांची मातृ-पितृ भक्ती बंधुप्रेम मित्र प्रेम सामाजिक बांधिलकी ही आजच्या विद्यार्थ्यांनी अंगीकारून त्याचा उपयोग कुटुंब, समाज, राष्ट्र निर्मितीसाठी करावा असा संदेश यावेळी त्यांनी दिला. अध्यक्षीय मार्गदर्शन करताना प्राचार्या डॉ.प्रीती पोहेकर यांनी श्रीरामांचे विविध आयाम स्पष्ट करून त्यांच्या सद्गुण समुच्चयाचा आपण आदर्श घ्यावा आणि त्यांचे आदर्श वर्तन विद्यार्थ्यांनी अंगीकारावे असे मत स्पष्ट केले. सूत्रसंचलन तसेच प्रास्ताविक व पाहुण्यांचा परिचय प्रा. डॉ. सुनिता कुरुडे इतिहास विभाग प्रमुख यांनी करून दिला तर आभार प्रा. डॉ.वैशाली पाटील यांनी मानले. प्रा. आनंद रत्नपारखी यांनी केले. या कार्यक्रमासाठी महाविद्यालयातील सर्व प्राध्यापकवृंद, कर्मचारी, विद्यार्थीवृंद तसेच इतिहास संकलन समितीचे सर्व सदस्य यांची उपस्थिती होती.

Swa.Sawarkar Mahavidyalaya Beed
B.S.P.S. Ambajogai

अध्यक्ष कोषाध्यक्ष सचिव
इतिहास संकलन संस्था कक्ष,
ता.आष्टी, जि.बीड.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

2022- 23 (3)

Bhartiya Shikshan Prasarak Sanstha Ambajogai
Swa.Sawarkar Mahavidyalaya Beed
Department of History
and
Itihas Sankalan Sanstha Maharashtra

MOU Collaboration Activity Information:

Title :	Freedom Fighter Bajirao Wakude Family Home Visit
Date and Time :	05 Jan. 2023 11 : 00 A.M.
Organizer:	Department of History and Itihas Sankalan Sanstha Maharashtra
Resource Person:	Freedom Fighter's Wife Smt. Ashalata Bajirao Wakude Beed
Outcome :	Students felt overwhelmed and proud to learn about freedom fighters and their love and passion for our country.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

अध्यक्ष कोषाध्यक्ष सचिव
इतिहास संकलन संस्था कक्ष,
ता आष्टी, जि.बीड.

Students of Swa. Sawarkar Mahavidyalaya, Beed Departmetn of History Honouring Freedom Fighter's Wife Smt. Ashalata Wakude on the Occasion of Marathwada Muktisangram Amrut Mahosavi Varsha 2023-2024 dt. 05/01/2023.

Interview of Freedom Fighter's Wife Smt. Ashalata Bajirao Wakude Beed Dt. 05/01/2023

अध्यक्ष कोषाध्यक्ष सचिव
इतिहास संकलन संस्था कडा,
ता.आष्टी, जि.बीड.

Swa.Sawarkar Mahavidyalaya Beed B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Students of Swa. Sawarkar Mahavidyalaya, Beed

Departmetn of History Honouring Freedom Fighter's Wife

Smt. Ashalata Wakude on the Occasion of

Marathwada Muktisangram Amrut Mahosavi Varsha 2023-2024 dt. 05/01/2023.

Students of Swa. Sawarkar Mahavidyalaya, Beed

Departmetn of History Honouring Freedom Fighter's Wife

Smt. Ashalata Wakude on the Occasion of

Marathwada Muktisangram Amrut Mahosavi Varsha 2023-2024 dt. 05/01/2023.

अध्यक्ष कोषाध्यक्ष सचिव

इतिहास संकलन संस्था कडा,

ता.आष्टी, जि.बीड.

Principal

Swa.Sawarkar Mahavidyalaya,

Beed.

Swa. Sawarkar Mahavidyalaya, Beed

Department of History and Itihas Sankalan Samiti

Devgiri Prant Maharashtra

Freedam Fighter Shri. Bajirao Wakude Family Home Visit

Student Attendance Date : 05 Jan. 2023

Sr. No.	Name of Student	Class	Signature
1.	Kapale Pavan Baban	B.A.F.Y.	Kapale P.P.
2.	Rangdal Vinayak Jagnnath	B.A.F.Y.	Vinayak.
3.	Waghmare Nikhil Nitin	B.A.F.Y.	Nikhil.
4.	Kute Shivani Balkrushna	B.A.F.Y.	Shivani
5.	Rote Nisha Parshuram	B.A.F.Y.	Nisha
6.	Ajabe Ashavini Bharat	B.A.F.Y.	Ajabe.
7.	Chavan Shankar Suresh	B.A.S.Y.	chavanss.

Teacher

Dr. Patil V.M.

Swa. Sawarkar Mahavidyalaya, Beed B.S.P.S Ambajogai

H.O.D.

Dr. Kurude S.S.

भारतीय गैर न्यायिक

एक सौ रुपये Rs. 100

रु. 100 ONE HUNDRED RUPEES

सत्यमेव जयते

भारत INDIA

INDIA NON JUDICIAL

महाराष्ट्र MAHARASHTRA ◐ 2021 ◐ ZX 169490

05 AUG 2022

स रा. मोरे

MEMORANDUM OF UNDERSTANDING (MOU) OF

Sports & Athletics Co-operation

Between

Swa.Sawarkar Mahavidyalaya Beed AND Champawati Krida Mandal,Beed

In accordance with a mutual desire to promote & develop activities between department of Sports Swa.Sawarkar Mahavidyalaya Beed & Champawati Krida Mandal,Beed. We agree to the following statement of intent on educational, Sports & athletics co-operation. The co-operation in specific areas may be designed by mutual consent & incorporated in to specific additional agreements upon signature by the appropriate authorities of the institutions,

Swa.Sawarkar Mahavidyalaya Beed ★ B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

1) Two institutions (mention above) agree to the following general areas of interest & co-operation.
   a) Trainer Exchange
   b) Joint Use of Sports & GYM facilities
   c) Joint training of sports persons
2) If any collaborative projects and or funding proposals are undertaken a detailed training collaboration agreement will be negotiated between the two institutions by obtaining permission from higher authorities of both the institutions.
3) Both the institutions agree that all financial arrangements necessary to implement this MOU of any subsequent agreement must be negotiated according to the regulation of each institution & depends on the availability of funds. Both the institutes recognize that :
   a) This MOU established a foundation of mutual understanding and interest & does not itself entail any financial obligations.
   b) This MOU will take effect from the date of its signing & shall be valid for the period of Five years from that date.
   c) This MOU may be revoked or modified by mutual agreement between the institutions & may be extended beyond its initial five year term by mutual agreement.

Date: 20/08/2022

Principal
Swa.Sawarkar College Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Secretary
Champawati Krida Mandal,Beed

Secretary
Champawati Krida Mandal
Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Swa.Sawarkar Mahavidyalaya
B.S.P.S.
Ambajogai
Beed

मुळ ज्युबली क्लब स्था.२ मार्च १९४४
रजि.क्रं.ई-११ बीड दि. १० जुन १९७१

चंपावती क्रिडा मंडळ, बीड.

जिल्हाधिकारी कार्यालय समोर, नगर रोड, बीड. फोन (०२४४२) २३०२३४
Email : champavatikrida@gmail.com

* अध्यक्ष *
श्री. अमरसिंह पंडित

जा.क्रं.

दिनांक 29 / 8 /2023

To,

Principal,

Swa.sawarkar Mahavidyalaya, Beed

Subject :- Availing facilities of champawati krida Mandal.

With respect to letter 2022-2023/ dated.20/08/2022 as per our MOU terms and conditions, the mentioned students.

1.Mr.Shailesh Dattatray Chavan

2.Mr. Aditya Kachru Chandane

are kindly permitted to avail the required facilities of Champawati Krida Mandal, Beed.

Secretary
Champavati Krida Mandal
Beed.

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Dept. of Sports 2022-23 (4)
Collaborative Activity

Established-1995

Bhartiya Shikshan Prasarak Santhas, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

NAAC– RE-ACCREDITION GRADE-B

• Website : https://www.sawarkarcollegebeed.edu.in
• E-mail : veersawarkarbeed@gmail. Com

SSMB/2022-2023/ 157-1 Date : 27/08/2022

To,
President / Secretary
Champawati krida Mandal Beed.

Subject : To provide sports facility to College students

Respected Sir,

As per the Memorandum of Understanding of Sports and Athletics Collaboration between Swa.Sawarkar Mahavidyalaya, Beed and Champawati Krida Mandal, Beed, please permit the said students to avail the facilities of Champawati krida Mandal. Mr. Shailesh Dattatrey Chavan B.Sc Ist year and Mr.Aditya kachru Chandane B.A.IInd year So that students can prepare for inter collegiate swimming competition.

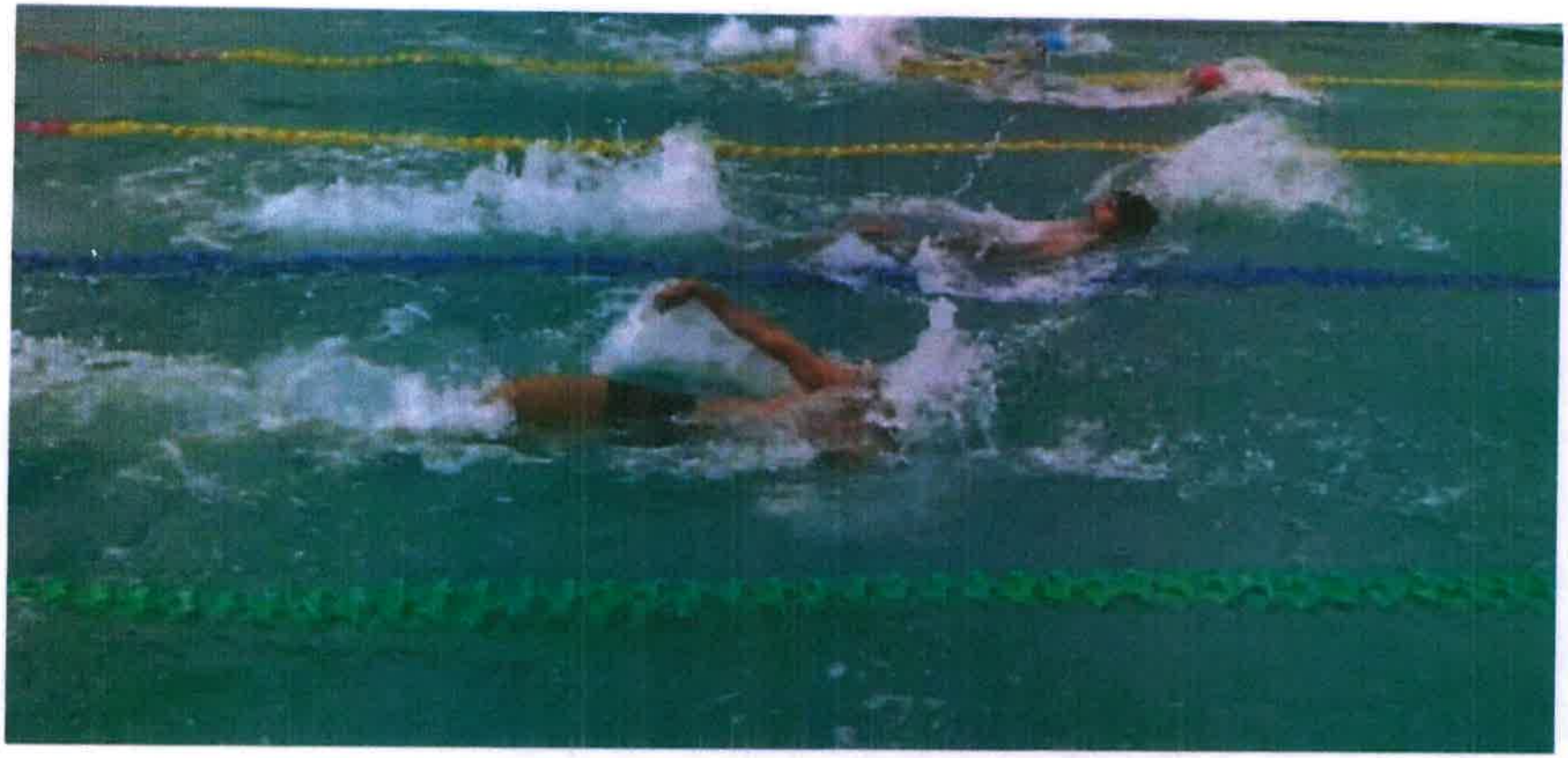
Thank you.

Principal
Swa Sawarkar Mahavidyalaya
Beed.

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

SWIMMING, COLLABORATIVE ACTIVITY



Swa.Sawarkar Mahavidyalaya Beed
B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Dept. of Sports

(4)

बा.शि.प्र.संस्था,अंबाजोगाई

स्वा. सावरकर महाविद्यालय, बीड

सावरकर नगर, नेत्रधाम हॉस्पीटल समोर,

जालना रोड, बीड-४३११२२

नॅक समितीकडे 'ब' दर्जा प्राप्त

B.S.P.Sanstha Ambajogai

Swa. Sawarkar Mahavidyalaya

Beed-431122

NACC Re-accredited ' B ' Grade

Phone : 02442-295459

Email-veerswarkarbeed@gmail.com

Web Site : sawarkar.co.in

Principal Dr. Priti D. Pohekar

M.A.,SET, M.Phil, Ph.D.

जा. क्र : स्वासामवि / २०२२-२०२३/ ५०२ - १

दिनांक : ०८/०२/२०२३

Letter of Intent

To,
The Chairman/Secretory,
Analytical Chemistry Teachers' and Researchers Association,
Aurangabad

With this letter, the Department of Chemistry of our institute would like to express the intent of collaboration with your esteemed institute **Analytical Chemistry Teachers' and Researchers Association (ACTRA), Reg. No F-9761 (A'bad) 26/04/2005** Department of Chemistry, Swa.SawarkarMahavidyalaya, Beedon behalf of the institute intend to establish a formal link with **Analytical Chemistry Teachers' and Researchers Association (ACTRA), Aurangabadwith** the aim of /for

- Collaborative Research
- Organization of seminar/conference/workshop/symposium
- Expertise sharing
- Sharing of research infrastructure
- Training Programs
- Sharing of knowledge
- Sharing of Resources

Hope for the future obligations between, which will lead to formal agreement.

Looking forward for your positive response.

received

Head
Department of Chemistry
Swa Sawarkar Mahavidyalaya, Beed

HEAD
Department of Chemistry
Swa. Sawarkar Mahavidyalaya, Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Date: /02/2023

Established-1995

BhartiyaShikshanPrasarakSantha's, Ambajogai

Swa. Sawarkar Mahavidyalaya,Beed

(Art's, Science & Commerce)

NAAC - RE-ACCREDITED GRADE-B

Dr. P.D. Pohekar

M.A. SET, M.Phil, Ph.D.

•Website: https://www.sawarkarcollegebeed.edu.in

•E-mail: veersawarkarbeed@gmail.Com

Following activities were carried out during the assessment period 2018-2023 by **Department of Chemistry, Swa. Sawarkar Mahavidyalaya, Beed** with the collaboration partner **Analytical Chemistry Teachers' and Researchers' Association (ACTRA)**

Sr. No.	Collaborative Activity	Participants	Nature of Collaboration	Academic Year
1	Online Lecture Series	Dr. ArifPathan	Faculty Exchange	2022-23
2	Research Publication	Hansaraj U. Joshi, Rajpal L. Jadhav, Mazahar N. Farooqui Shailendrasingh V. Thakur	Complexation of La(III) Metal Ion with Novel Schiff Bases, Thermodyanamic Study, Journal of Advanceed Scientific Research Volume 12, Issue-2, Suppl 2, Page No. 133-136Available online through http://www.sciensage.info, ISSN: 0976-9595, July 2021	2021-22
3	Research Publication	Hansaraj Joshi1, RajpalJadhav, MazaharFarooqui, ShailendrasinghThakur	Thermodynamics Study of Formation of Zinc Complexes Carrying Novel Schiff Bases in Mixed Solvent Media; Journal of Advances in Applied Sciences and Technology (2022) Vol. 8Issue 1| Page 91-96, ISSN NO: 2393-8188(print), 2393-8296(online) (cc)	2021-22
4	Research Publication	Joshi H. U.Jadhav R.L. MazaharFarooqui, Shailendrasingh Thakur	Thermodyanamics of the formation of divalent Copper complexes carrying novel Schiff bases in mixed solvent media; Journal of Interdiciplinary Cyclic Research Volume XIII, Issue-IV, Page No. 53-61, ISSN: 0022-1945, April/2021	2020-21
5	Research Publication	Hansaraj Joshi, RajpalJadhav, MazaharFarooqui, Shailendrasingh Thakur	Studies of complexation of trivalent rare earth metal ion Cerium with novel Schiff bases: Thermodynamic Aspect; The International journal of analytical and experimental modal analysis, Volume XIII, Issue IV, Page No 74-80, ISSN: 0886-0367, April/2021	2020-21

Head
Department Of Chemistry
Swa Sawarkar Mahavidyalay,Beed

Principal
Swa Sawarkar Mahavidyalaya,
Beed.

Principal
Maulana Azad College of Arts,
Science & Commerce,
Rauza Baugh, Aurangabad.

SECRETARY
Analytical Chemistry Teachers & Researchers Association
Aurangabad Reg.No. F-0711 (Abad)

Dept. of Chemistry

2022-2023

Collaborative Activity

(5)

Swa. Sawarkar Mahavidyalaya, Beed. B.S.S. Ambajogai

Detail Report

Title of Programme:		Prafulla Chandra Ray Online Lecture Series		
Name of Organizing Department/Unit:		Department of Chemistry, Swa. Sawarkar Mahavidyalaya, Beed in Collaboration with Analytical Chemistry Teachers and Researchers' Association (ACTRA) and Department of Chemistry, KSK College, Beed		
Name of the Coordinator(s)/Convener(s)/ Organizer(s) of the Programme:		**Organizing Secretary:** Dr. Shendge A.S. **Co-coordinator:** Jadhav R. L. **Convener:** Naiknaware V. V. **H.O.D. Chemistry:** Dr. Joshi H. U.		
Date(s) of the Programme:		22/12/2022, 23/12/2022,24/12/2022		
Venue:		Online Platform: Google Meet		
Target Group:		Student		
Numberof Participants:		**Male**	**Female**	**Total**
	Teaching	06	01	07
	Non-teaching	---	--	--
	Students	78 +57 +40		175
Name(s) and details of Resource Person(s),		Day 1: Dr. Arif Pathan, Day 2: Dr. Sandeep Sampal, Day 3: Dr. Sonaji Gaikwad		
Topic		Day 1: Basics of project writing Day 2: Careers in Chemistry Day 3: Stereochemistry		
Total Expenditure for the Programme:		Nil		
Source of Funding:		Nil		

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Notice/Flyer/News Paper/Other Publicity Resources:

Day-1: Notice on Google Classroom:

Stream Classwork People Grades

Rajpal Jadhav
Dec 21, 2022 (Edited Dec 21, 2022)

Dear student,
Chemistry Department organizes a Prafulla Chandra Ray Lecture series from 22.12.2022 to 24.12.2022 at 11.00 am by using the online mode platform Google Meet. So attend the lectures on time. For this every students must download the Google Meet app in your moodle

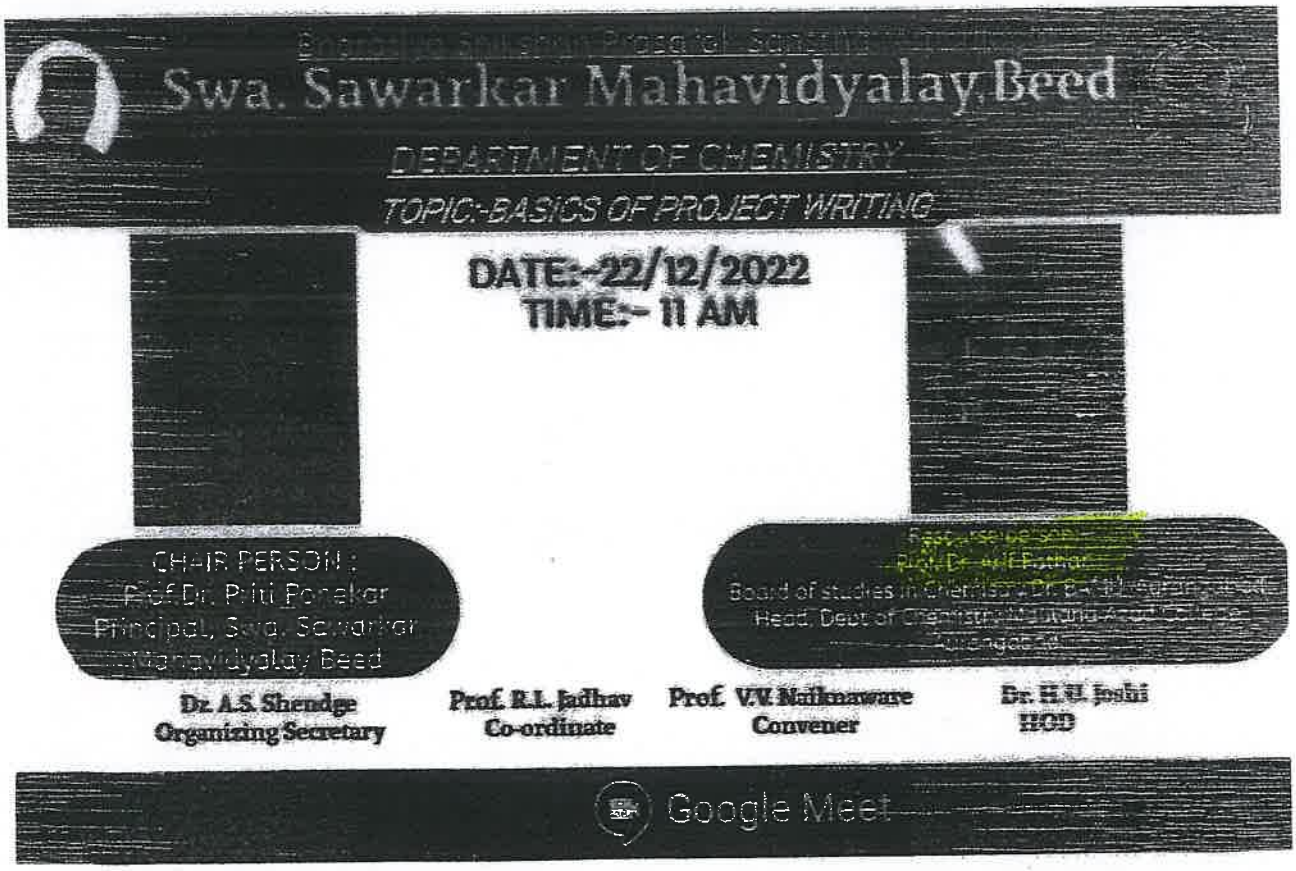
Date: 22 December 2022
Time: 11 am

Mode: Online
Platform: Google Meet

Join meeting 5 minutes before by clicking on link below :-

Prafulla Chandra Ray Online Lecture Series
Thursday, Dec 22 – Saturday, Dec 24
Google Meet joining info
Video call link: https://meet.google.com/jky-oocm-awb
Or dial: +1 636-400-7150 PIN: 508 258 690#

H.O.D.
Chemistry Department,
Swa. Sawarkar Mahavidyalaya, Beed



Head
Department Of Chemistry
Swa Sawarkar Mahavidyalay,Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Dept. of Chemistry 2021-22
Collaborative publication

(35)
(1)

Journal of Advanced Scientific Research
Available online through http://www.sciensage.info
ISSN 0976-9595
Research Article

COMPLEXATION OF La(III) METAL ION WITH NOVEL SCHIFF BASES: THERMODYNAMIC STUDY

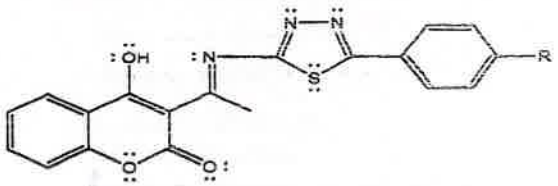
Hansaraj U. Joshi[1], Rajpal L. Jadhav[1], Mazahar N. Farooqui[2], Shailendrasingh V. Thakur*[3]
[1]Department of Chemistry, Swa. Sawarkar College, Beed, Maharashtra, India
[2]Maulana Azad College of Arts, Science and Commerce, Aurangabad, Maharashtra, India
[3]Department of Chemistry, Milliya College, Beed, Maharashtra, India
*Corresponding author: hansarajjoshi307@gmail.com

ABSTRACT
In the present work we have investigated the stability constant of seven Schiff bases with trivalent rare earth metal ion Lanthanum using a pH metric titration technique in 80% (v/v) ethanol-water mixture at three different temperatures 298K, 308K & 318K at an ionic strength of 0.1M $NaClO_4$. The Calvin-Bjerrum method as adopted by Irving-Rossotti has been employed to determine metal-ligand stability constant logK values. The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated.

Keywords: Rare earth metal ion, Schiff bases, Stability constant, pH metry, Thermodynamic parameter.

1. INTRODUCTION
Metal complexes of Schiff bases play a central role in the development of coordination chemistry. Proton transfer plays an important role in the reactions such as complexation, acid-base catalyzing and enzymatic reaction in aqueous solution. The stability constants of significance in order to predict different chemical processes such as isolation, extraction, or preconcentration. Thus, the accurate determination of acidity and stability constants values are fundamental to understand the behavior of ligands and their interaction with metal ions in aqueous solution. pH metric titration technique is a powerful and simple electro analytical technique for determination of stability constants. There are different kinds of ligands used for complexation. For the present investigation, we have selected a series of seven Schiff bases. Synthesis of all seven Schiff bases was done by reported methods [1-2].

In continuation of our earlier work with complexation of Schiff bases [1, 2] and after a review of literature [3-9], it was a thought of interest to study the effect of temperature on thermodynamic parameters such as Gibb's free energy change ΔG, enthalpy change ΔH and entropy change ΔS of complexes of seven Schiff bases with rare earth metal ion La^{3+} pH metrically in 80% (v/v) ethanol-water mixture.



R= -H, $-CH_3$, NO_2, -F, -Cl, -Br, -I

Fig. 1: Schiff base ligand (Molecular formula $C_{19}H_{12}O_3N_3SR$)

2. EXPERIMENTAL
2.1. Material and solutions
Lanthanum metal salt, NaOH, $NaClO_4$, $HClO_4$ used were of AR grade. The solutions used in the pH metric titration were prepared in double distilled CO_2 free water. The NaOH solution was standardized against oxalic acid solution and standard alkali solution was again used for standardization of $HClO_4$. The measurements were made at temperatures 298K, 308K and 318K in 80% (v/v) ethanol-water mixture at constant ionic strength (0.1M $NaClO_4$). The thermostat model SL-131 (Adar dutt and Co. India Pvt. Ltd. Mumbai) Narang Scientific Works Pvt. Ltd., New Delhi was used to maintain the temperature constant and the solutions were equilibrated in the thermostat for about 10-15 minutes before titration. The pH measurement was made using a digital Spectralab potentiometric titrator AT 38 C with combined glass electrode

Journal of Advances in Applied Sciences and Technology (2022) Vol. 8[Issue 1] Page

ISSN : 2393-8188 (print)
2393-8196 (online)
www.milliyasrcollege.org.journal.php

THERMODYNAMICS STUDY OF FORMATION OF ZINC COMPLEXES CARRYING NOVEL SCHIFF BASES IN MIXED SOLVANT MEDIA

Hansaraj Joshi[1*], Rajpal Jadhav[1], Mazahar Farooqui[2], Shailendrasingh Thakur[3]

[1]Department of Chemistry, Swa.Sawarkar College, Beed

[2]Principal, Maulana Azad College, Aurangabad.

[3]Department of Chemistry, Milliya College, Beed

Email: hansarajjoshi307@gmail.com , svthakur1972@gmail.com

Abstract : The proton-ligand and metal-ligand stability constants of novel Schiff bases 4-hydroxy-3-(1-((5-substitutedphenyl)-1,3,4-thiadiazol-2-yl)imino)ethyl)-2H-chromen-2-one with transition metal ion Zn (II) ions using a pH metric titration technique in 80%(v/v) ethanol-water mixture at three different temperatures 25°C, 35°C & 45°C at an ionic strength of 0.1M $NaClO_4$ were determined. The Calvin-Bjerrum method as modified by Irving-Rossotti has been employed to determine metal-ligand stability constant logK values. The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated.

Keywords: stability constant, transition metal ion, Schiff bases, pH metric titration, thermodynamic parameter etc.

1. INTRODUCTION

pH metric titration a powerful electro-analytical technique due to its easy set up and reliability for determination of stability constants. Several d-block elements form complexes owing to incomplete d orbitals. Organic ligands with donor atons like N, O or S form complexes with these metal ions. Schiff base metal complexes are important class of coordination compounds due to their enormous applications. In the present investigation, we have selected series of seven schiff bases as ligands.

After a review of literature survey and in continuation of our earlier work with complexation of schiff bases and medicinal drugs[1-10], it was thought of interest to study the effect of temperature on thermodynamic parameters such as Gibb's free energy change ΔG, enthalpy change ΔH and entropy change ΔS of complexes of seven schiff bases with transition metal ion Zn^{2+} pH metrically in 80% (v/v) ethanol-water mixture.

2.SYNTHESIS OF SCHIFF BASES

All seven schiff bases were synthesised by reported-methods[11-12]. The compounds 3-acetyl-4-hydroxy-2H-chromen-2-one and 2-amino thiadiazole derivatives were the intermediates for preparing novel Schiff bases 4-hydroxy-3-(1-((5-substitutedphenyl)-1,3,4-thiadiazol-2-yl)imino)ethyl)-2H-chromen-2-one. The ketone, 3-acetyl-4-hydroxychromen-2-one was prepared from 4-hydroxy coumarin and acetic acid in presence of $POCl_3$ refluxed for 30 minutes[13]. The aromatic amine, 5-(4-substitutedphenyl)-1, 3, 4-thiadiazol-2-amine was prepared by reacting para substituted benzoic acid with thiosemicarbazide in presence of conc. H_2SO_4 and refluxed for 4 hours[14-16]. The Schiff bases were prepared by adding 3-acetyl-4-hydroy chromen-2-one (0.01mole) and 5-(4-substitutedphenyl)-1, 3, 4 thiadiazol-2-amine (0.01mole) in ethanol (50ml) and refluxing the mixture for four hours. After cooling, the product was crystallized from ethanol. The purity of the ligand was checked by usual laboratory techniques i.e. m. p. and TLC. Melting points were determined in open capillaries and are uncorrected. These Schiff bases were characterized by IR, ^{1}HNMR, ^{13}CNMR.

Dept. of Chemistry

Thermodynamics of the formation of divalent Copper complexes carrying novel Schiff bases in mixed solvent media

Hansaraj Joshi[1], Rajpal Jadhav[1], Mazahar Farooqui[2], Shailendrasingh Thakur*[3]

[1]Department of Chemistry, Swa.Sawarkar College, Beed.

[2]Maulana Azad College of Arts, Science and Commerce, Aurangabad.

[3]Department of Chemistry, Milliya College, Beed.

Email: hansarajjoshi307@gmail.com , svthakur1972@gmail.com

Abstract : The stability constant of seven Schiff bases 4-hydroxy-3-(1-((5-phenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_1], 4-hydroxy-3-(1-((5-(p-tolyl)-1,3,4-thiadiazol-2-yl)imino)ethyl)-2H-chromen-2-one[S_2], 4-hydroxy-3-(1-((5-(4-nitrophenyl)-1, 3, 4-thiadiazol-2-yl) imino) ethyl)-2H-chromen-2-one [S_3], 4-hydroxy-3-(1-((5-(4-flurophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_4], 4-hydroxy-3-(1-((5-(4-chlorophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_5], 4-hydroxy-3-(1-((5-(4-bromophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_6] and 4-hydroxy-3-(1-((5-(4-iodophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_7] with divalent transition metal ion Cu^{2+} using a pH metric titration technique in 80%(v/v) ethanol-water mixture at three different temperatures 25°C, 35°C & 45°C at an ionic strength of 0.1M $NaClO_4$ were studied. The Calvin-Bjerrum method as adopted by Irving-Rossotti has been employed to determine metal-ligand stability constant logK values. The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated.

Keywords: stability constant, transition metal ion, Schiff bases, pH metry, thermodynamic parameter etc.

1. Introduction:

Metal complexes of Schiff bases play a central role in the development of coordination chemistry. pH metric titration technique is a powerful and simple electro analytical technique for determination of stability constants. Most of the d-block elements form complexes. There are different kinds of ligands used for complexation. For the present investigation, we have selected a series of seven Schiff bases.

After a review of literature and in continuation of our earlier work with complexation of Schiff bases and medicinal drugs[1-7], it was thought of interest to study the effect of

The International journal of analytical and experimental modal analysis ISSN No:-0886-9367

Studies of complexation of trivalent rare earth metal ion Cerium with novel Schiff bases : Thermodynamic Aspect

Hansaraj Joshi[1], Raipal Jadhav[1], Mazahar Farooqui[2], Shailendrasingh Thakur*[3]

[1]Department of Chemistry, Swa.Sawarkar College, Beed.

[2]Maulana Azad College of Arts, Science and Commerce, Aurangabad.

[3]Department of Chemistry, Milliya College, Beed.

Email: hansarajjoshi307@gmail.com , svthakur1972@gmail.com

Abstract : In the present work we have investigated the stability constant of seven Schiff bases 4-hydroxy-3-(1-((5-phenyl)-1,3,4-thiadiazol-2 yi) imino) ethyl)-2H-chromen-2-one[S_1], 4-hydroxy-3-(1-((5-(p-tolyl)-1,3,4-thiadiazol-2-yl)imino)ethyl)-2H-chromen-2-one[S_2], 4-hydroxy-3-(1-((5-(4-nitrophenyl)-1, 3, 4-thiadiazol-2-yl) imino) ethyl)-2H-chromen-2-one [S_3], 4-hydroxy-3-(1-((5-(4-fluorophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_4], 4-hydroxy-3-(1-((5-(4-chlorophenyl)-1,3,4-thiadiazol-2 yi) imino) ethyl)-2H-chromen-2-one[S_5], 4-hydroxy-3-(1-((5-(4-bromophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_6] and 4-hydroxy-3-(1-((5-(4-iodophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_7] with trivalent rare earth metal ion Ce^{3+} using a pH metric titration technique in 80%(v/v) ethanol-water mixture at three different temperatures 25°C, 35°C & 45°C at an ionic strength of 0.1M $NaClO_4$. The Calvin-Bjerrum method as adopted by Irving-Rossotti has been employed to determine metal-ligand stability constant logK values. The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated.

Keywords: rare earth metal ion, Schiff bases, stability constant, pH metry, thermodynamic parameter etc.

1. Introduction:

Metal complexes are widely used in various fields, such as biological processes pharmaceuticals, separation techniques, analytical processes etc.To understand the complex formation ability of the ligands and the activity of complexes, it is essential to have the knowledge about solution equilibria involved in the reactions. The extent to which the ligand binds to metal ions is normally expressed in terms of stability. Metal complexes of Schiff bases play a central role in the development of coordination chemistry. pH metric titration technique is a powerful and simple electro analytical technique for determination of stability constants. Most of the f-block elements form complexes. There are different kinds of ligands used for complexation. For the present investigation, we have selected a series of seven Schiff bases.

After a review of literature and in continuation of our earlier work with complexation of Schiff bases and medicinal drugs[1-5], it was thought of interest to study the effect of temperature on thermodynamic parameters such as Gibb's free energy change ΔG, enthalpy change ΔH and entropy change ΔS of complexes of seven Schiff bases with rare earth metal ion Ce^{3+} pH metrically in 80% (v/v) ethanol-water mixture.

2. Synthesis of Schiff bases:

Synthesis of all seven Schiff bases was done by reported methods. The compounds 3-acetyl-4-hydroxy-2H-chromen-2-one and 2-amino thiadiazole derivatives were the intermediates for preparing novel Schiff bases 4-hydroxy-3-(1-((5-substitutedphenyl)-1,3,4-thiadiazol-2-yl)imino)ethyl)-2H-chromen-2-one. The ketone, 3-acetyl-4-hydroxychromen-2-one was prepared from 4-hydroxy coumarin and acetic acid in presence of $POCl_3$ by refluxing for 30 minutes[6]. The aromatic amine, 5-(4-

Established-1995

BhartiyaShikshanPrasarakSantha's, Ambajogai

Swa. Sawarkar Mahavidyalaya,Beed

(Art's, Science & Commerce)

NAAC– RE-ACCREDITED GRADE-B

Dr. P.D. Pohekar

M.A.,SET,M.Phil.,Ph.D.

•Website: https://www.sawarkarcollegebeed.edu.in

•E-mail: veersawarkarbeed@gmail.Com

Following activities were carried out during the assessment period 2018-2023 by **Department of Chemistry, Swa. Sawarkar Mahavidyalaya, Beed** with the collaboration partner **Department of Chemistry,Milliya Mahavidyalaya, Beed**

Sr. No.	Collaborative Activity	Participants	Nature of Collaboration	Academic Year
1	Research Publication	Hansaraj U. Joshi, Rajpal L. Jadhav, Mazahar N. Farooqui, Shailendrasingh V. Thakur	**Joint Manuscript:**Complexation of La(III) Metal Ion with Novel Schiff Bases, Thermodyanamic Study, Journal of Advanceed Scientific Research Volume 12, Issue-2, Suppl 2, Page No. 133-136Available online through , http://www.sciensage.info, ISSN: 0976-9595, July 2021	2021-22
2	Research Publication	Hansaraj Joshi, RajpalJadhav, MazaharFarooqui, ShailendrasinghThakur	**Joint Manuscript:Th**ermodynamics Study Of Formation Of Zinc Complexes Carrying Novel Schiff Bases In Mixed Solvant Media; Journal of Advances in Applied Sciences and Technology (2022) Vol. 8|Issue 1| Page 91-96, ISSN NO:2393-8188(print), 2393-8296(online) (cc)	2021-22
3	Research Publication	Vishal Naiknaware, and Sahebrao Naikwade, Shailendrasingh Thakur	**Joint Manuscript :**Thermodynamic studies of transition metal Ions with Sciff base in 50% (V/V) Ethanol-Water system, Journal of research and Development, Volume 10, Special Issue 02 (2020)	2020-21

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Dr.Shailendrasingh Thakur
Professor & Head
Department of Chemistry

Principal
Milliya Arts Science & Mar
Science College,Beed.

4	Research Publication	Joshi H. U., Jadhav R.L.,MazaharFarooqui, Shailendrasingh Thakur	**Joint Manuscript:**Thermodyanamics of the formation of divalent Copper complexes carrying novel Schiff bases in mixed solvent media; Journal of Interdiciplinary Cyclic Research Volume XIII, Issue-IV, Page No. 53-61, ISSN: 0022-1945, April/2021	2020-21
5	Research Publication	Hansaraj Joshi, RajpalJadhav, MazaharFarooqui, Shailendrasingh Thakur	**Joint Manuscript:**Studies of complexation of trivalent rare earth metal ion Cerium with novel Schiff bases:Thermodynamic Aspect; The International Journal of analytical and experimental modal analysis, Volume XIII, Issue IV, Page No 74-80; ISSN: 0886-0367; April/2021	2020-21
6	Research Publication	Sailendrasingh Thakur, H. U. Joshi, M.A. Sakhare and Ramesh Ware	**Joint Manuscript:** Mixed ligand complexes of Cadmium metal ion with diphenhydramine and amino acids in aqueous media; Research Journey International Multi-disciplinary E-Research Journal, October-2019	2019-20
7	Research Publication	ShailendrasinghThakur1, Hansaraj Joshi1, M. A. Sakhare and S.D. Naikwade	**Joint Manuscript:** Study of complaxation of divalent transition and trivalent lanthanide metal ions with Schiff's Base 2-Hydroxy-5-bromo- acetophenone-N-(2-Chloro-5-nitrophenyl) imine: thermodynamic aspect; Journal of Global Resources Volume 5 (02) July 2019	2019-20
8	Research Publication	H. U. Joshio, S.V. Thakur and G.M. Dhond:	**Joint Manuscript:** Students participation in attainment of graduate attributes; Research Journey International Multi-disciplinary E-Research Journal, October-2019	2019-20

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Dr.Shailendrasingh Thakur
Professor & Head
Department of Chemistry
Milliya College Beed-431122

Principal
Milliya Arts Science & Ma
Science College,Beed

9	Research Publication	Jadhav R.L.,Joshi H.U., S.D.Naiwade, S. B. Ubale,Shailendrasingh Thakur	**Joint Manuscript:** Thermodynamic study of Complexation of transition metal ions with Schiff Base 2-Hydroxy 5-bromo Acetophenone –N-(4-Methyl phenyl)Imine in 50%(V/V)ethanol-water medium ; JOURNAL OF GLOBAL RESOURCESBiannual International peer Reviewed JournalUGC-CARE Listed Journal in Group D; ISSN: 2395-3160(print)Volume 5(02)1,p. No.220-223; **11/08/2019**	2019-20
10	Research Publication	RajpalJadhav; Ramesh Ware; ShailendrasinghThakur	**Joint Manuscript:** Potentiometric investigation of complexation of Benazepril drug with alkaline earth metal ions in aqueous media ; Journnal of Research and Development A Multidisiplinary International Journal, Volume 10,Special Issue02,Janury 2020; ISSN:2230-9578, P. No. 40-42; 21, January 2020	2019-20
11	Research Publication	ShailendrasinghThakur1, Hansaraj Joshi1, M. A. Sakhare and S.D. Naikwade:	**Joint Manuscript:** Stability study of complexation of transition metals with Sciff Base 2-Hydroxy-5-bromoacetophenone-N-(4-methoxyphenyl) imine: thermodynamic aspects; Research Journey International Multi-disciplinary E-Research Journal, March-2019	2018-19
12	Guest Lecture	Dr. Abdul Rahem	**Faculty Exchange**	2018-19

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Dr.Shailendrasingh Thakur
Professor & Head
Department of Chemistry
Milliya College Beed-431122

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Principal
Milliya Arts Science & Mang.
Science College,Beed.

B. S.P.S Ambajogai,s
Swa. Sawarkar Mahavidyalaya Beed
(Arts, Science & Commerce)

Principal :- 02442- 226218 (O)
Web-site-Sawarkar.co.in,
e-mail:- veersawarkarbeed@gmail.com

Dr. Joshi Vidyasagar Nagorao
Principal
Sawarkar Nagar, Jalna Road,
BEED- 431122 (Maharashtra)INDIA

Date : 14/08/2017

LETTER OF COLLABORATION

Between
Department of Chemistry,
Swa.Sawarkar Mahavidyalaya, Beed.
AND
Department of Chemistry,
Milliya Arts, Science and Management Science College, Beed

This Letter of Collaboration is designed to foster a friendly relationship through mutual cooperation between **Department of Chemistry, Swa.Snwarkar Mahavidyalaya, Beed** and **Department of Chemistry, Milliya Arts, Science and Management Science College, Beed** . No financial obligations are assumed under this agreement.

Swa.Sawarkar Mahavidyalaya, Beed and **Department of Chemistry, Milliya Arts, Science and Management Science College, Beed** have reached agreement on the following areas of cooperation, subject to mutual consent and the availability of sufficient funding:

- Academic Activities
- Research Activities
- Training Programmes
- Exchange of Faculties
- Sharing of knowledge
- Sharing of Resourses

This Letter of Collaboration shall commence on the date of latest signature and be in effect for five years, at which time it shall be reviewed for possible extension. Either party may terminate this Letter by written notification signed by the appropriate official of the institution initiating the notice. However, such notification must be received by the other party at least one month prior to the effective date of termination.

Head Dept. of Chemistry
Swa. Sawarkar College,
Beed

Head Dept. of Chemistry
Milliya College,
Beed

Principal
Swa. Sawarkar College,
Beed

Principal
Milliya College,
Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Principal
Milliya Arts & Science College,
Beed

Dept. of Chemistry 2020-21
Collaborative publications

SciencSage
Journal of Advanced Scientific Research
Available online through http://www.sciensage.info
ISSN 0976-9595
Research Article

COMPLEXATION OF La(III) METAL ION WITH NOVEL SCHIFF BASES: THERMODYNAMIC STUDY

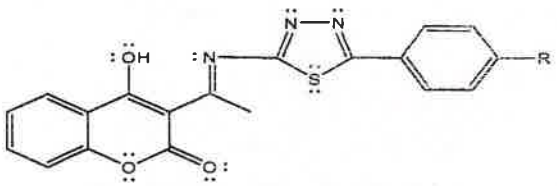
Hansaraj U. Joshi[1], Rajpal L. Jadhav[1], Mazahar N. Farooqui[2], Shailendrasingh V. Thakur*[3]
[1]Department of Chemistry, Swa. Sawarkar College, Beed, Maharashtra, India
[2]Maulana Azad College of Arts, Science and Commerce, Aurangabad, Maharashtra, India
[3]Department of Chemistry, Milliya College, Beed, Maharashtra, India
*Corresponding author: hansarajjoshi307@gmail.com

ABSTRACT
In the present work we have investigated the stability constant of seven Schiff bases with trivalent rare earth metal ion Lanthanum using a pH metric titration technique in 80% (v/v) ethanol-water mixture at three different temperatures 298K, 308K & 318K at an ionic strength of 0.1M $NaClO_4$. The Calvin-Bjerrum method as adopted by Irving-Rossotti has been employed to determine metal-ligand stability constant logK values. The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated.

Keywords: Rare earth metal ion, Schiff bases, Stability constant, pH metry, Thermodynamic parameter.

1. INTRODUCTION
Metal complexes of Schiff bases play a central role in the development of coordination chemistry. Proton transfer plays an important role in the reactions such as complexation, acid-base catalyzing and enzymatic reaction in aqueous solution. The stability constants of significance in order to predict different chemical processes such as isolation, extraction, or preconcentration. Thus, the accurate determination of acidity and stability constants values are fundamental to understand the behavior of ligands and their interaction with metal ions in aqueous solution. pH metric titration technique is a powerful and simple electro analytical technique for determination of stability constants. There are different kinds of ligands used for complexation. For the present investigation, we have selected a series of seven Schiff bases. Synthesis of all seven Schiff bases was done by reported methods [1-2].

In continuation of our earlier work with complexation of Schiff bases [1, 2] and after a review of literature [3-9], it was a thought of interest to study the effect of temperature on thermodynamic parameters such as Gibb's free energy change ΔG, enthalpy change ΔH and entropy change ΔS of complexes of seven Schiff bases with rare earth metal ion La^{3+} pH metrically in 80% (v/v) ethanol-water mixture.



R= -H, $-CH_3$, NO_2, -F, -Cl, -Br, -I

Fig. 1: Schiff base ligand (Molecular formula $C_{19}H_{12}O_3N_3SR$)

2. EXPERIMENTAL
2.1. Material and solutions
Lanthanum metal salt, NaOH, $NaClO_4$, $HClO_4$ used were of AR grade. The solutions used in the pH metric titration were prepared in double distilled CO_2 free water. The NaOH solution was standardized against oxalic acid solution and standard alkali solution was again used for standardization of $HClO_4$. The measurements were made at temperatures 298K, 308K and 318K in 80% (v/v) ethanol-water mixture at constant ionic strength (0.1M $NaClO_4$). The thermostat model SL-131 (Adar dutt and Co. India Pvt. Ltd. Mumbai) Narang Scientific Works Pvt. Ltd., New Delhi was used to maintain the temperature constant and the solutions were equilibrated in the thermostat for about 10-15 minutes before titration. The pH measurement was made using a digital Spectralab potentiometric titrator AT 38 C with combined glass electrode

Dept. of Chemistry 2021-22
Collaborative publication

JAAST Journal of Advances in Applied Sciences and Technology
ISSN : 2393-8188 (print)
2393-8196 (online)
www.milliyasrcollege.org.journal.php

THERMODYNAMICS STUDY OF FORMATION OF ZINC COMPLEXES CARRYING NOVEL SCHIFF BASES IN MIXED SOLVANT MEDIA

Hansaraj Joshi[1], Rajpal Jadhav[1], Mazahar Farooqui[2], Shailendrasingh Thakur[3]*

[1]Department of Chemistry, Swa.Sawarkar College, Beed
[2]Principal, Maulana Azad College, Aurangabad.
[3]Department of Chemistry, Milliya College, Beed
Email: hansarajjoshi307@gmail.com , svthakur1972@gmail.com

Abstract : The proton-ligand and metal-ligand stability constants of novel Schiff bases 4-hydroxy-3-(1-((5-substitutedphenyl)-1,3,4-thiadiazol-2-yl)imino)ethyl)-2H-chromen-2-one with transition metal ion Zn (II) ions using a pH metric titration technique in 80%(v/v) ethanol-water mixture at three different temperatures 25°C, 35°C & 45°C at an ionic strength of 0.1M $NaClO_4$ were determined. The Calvin-Bjerrum method as modified by Irving-Rossotti has been employed to determine metal-ligand stability constant logK values. The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated.

Keywords: stability constant, transition metal ion, Schiff bases, pH metric titration, thermodynamic parameter etc.

1. INTRODUCTION

pH metric titration a powerful electro-analytical technique due to its easy set up and reliability for determination of stability constants. Several d-block elements form complexes owing to incomplete d orbitals. Organic ligands with donor atons like N, O or S form complexes with these metal ions. Schiff base metal complexes are important class of coordination compounds due to their enormous applications. In the present investigation, we have selected series of seven schiff bases as ligands.

After a review of literature survey and in continuation of our earlier work with complexation of schiff bases and medicinal drugs[1-10], it was thought of interest to study the effect of temperature on thermodynamic parameters such as Gibb's free energy change ΔG, enthalpy change ΔH and entropy change ΔS of complexes of seven schiff bases with transition metal ion Zn^{2+} pH metrically in 80% (v/v) ethanol-water mixture.

2.SYNTHESIS OF SCHIFF BASES

All seven schiff bases were synthesised by reported-methods[11-12]. The compounds 3-acetyl-4-hydroxy-2H-chromen-2-one and 2-amino thiadiazole derivatives were the intermediates for preparing novel Schiff bases 4-hydroxy-3-(1-((5-substitutedphenyl)-1,3,4-thiadiazol-2-yl)imino)ethyl)-2H-chromen-2-one. The ketone, 3-acetyl-4-hydroxychromen-2-one was prepared from 4-hydroxy coumarin and acetic acid in presence of $POCl_3$ refluxed for 30 minutes[13]. The aromatic amine, 5-(4-substitutedphenyl)-1, 3, 4-thiadiazol-2-amine was prepared by reacting para substituted benzoic acid with thiosemicarbazide in presence of conc. H_2SO_4 and refluxed for 4 hours[14-16]. The Schiff bases were prepared by adding 3-acetyl-4-hydroy chromen-2-one (0.01mole) and 5-(4-substitutedphenyl)-1, 3, 4 thiadiazol-2-amine (0.01mole) in ethanol (50ml) and refluxing the mixture for four hours. After cooling, the product was crystallized from ethanol. The purity of the ligand was checked by usual laboratory techniques i.e. m. p. and TLC. Melting points were determined in open capillaries and are uncorrected. These Schiff bases were characterized by IR, ^{1}HNMR, ^{13}CNMR.

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

2020-21

Dept. of Chemistry

Journal of Research and Development | Volume 10, Special Issue 02
Title : Innovative Ideas in Chemical Science and Environment Science for Sustainable Development-2020

Thermodynamic Studies of transition Andrare Earth Metal Ions With Schiff Base In 50 % (V/V) Ethanol-Water Mixture.

Vishal Naiknaware[1], and Sahebrao Naikwade[2], Shailendrasingh Thakur[*3]
[1]Department of Chemistry, Swa.Sawarkar College, Beed.
[2]Principal, Chhatrapati Shahu College, Lasur Station, Aurangabad.
[3]Department of Chemistry, Milliya College, Beed

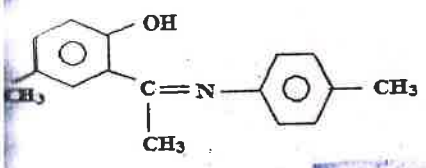
constant ofschiff base2-hydroxy-5-methylacetophenone-N-(4-methylphenyl)imine with divalent ions Cu^{2+}, Ni^{2+}, Cd^{2+}, Co^{2+}, Mn^{2+}, Zn^{2+} and trivalent lanthanide metal ions La^{3+}, Ce^{3+}, Pr^{3+}, Nd^{3+}, Sm^{3+}, Eu^{3+}, Dy^{3+} and Ho^{3+} using apH metric titration technique in 50% (v/v) ethanol-water mixture atthree different 25°C, 35°C and 45°C at an ionic strength of 0.1M $NaClO_4$ were studied. The Calvin-Bjerrum method as Irving-Rossotti has been employed to determine metal-ligand stability constant log K values. The trend in the constants for transition metal ions follows the order: $Cu^{2+}>Zn^{2+}>Cd^{2+}>Co^{2+}> Ni^{2+} >Mn^{2+}$ and for lanthanide $La^{3+}<Ce^{3+}<Pr^{3+}<Nd^{3+}<Sm^{3+}<Eu^{3+}>Gd^{3+}<Tb^{3+}<Dy^{3+}> Ho^{3+}$ and shows a break at gadolinium. The mic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) with the complexation reactions were calculated.

words : Stability constant, transition metal, lanthanide, schiff base, pH metry, thermodynamic parameteretc.

duction :

metric titration technique is a powerful and ion analytical technique for determination of nstants. Metal complexes of schiff bases play ole in the development of coordination Most of the d-block and f-block elements exes. There are different kinds of ligands mplexation. For the present investigation, we lected schiff base2-hydroxy- 5-phenone- N- (4-methylphenyl) imine ecular formula $C_{16}H_{17}ON$.

mination of our earlier work[1-16] and after urvey it was thought of interest to study the emperature on thermodynamic parameters bb's free energy change ΔG, enthalpy change tropy change ΔS of complexes of 2-hydroxy-etophenone-N-(4-methylphenyl)imine with ion metal ions Cu^{2+},Ni^{2+},Cd^{2+},Co^{2+}, Mn^{2+}, n rare earth metal ions La^{3+}, Ce^{3+}, Pr^{3+}, Nd^{3+}, , Gd^{3+}, Tb^{3+}, Dy^{3+} and Ho^{3+} using pH in 50 % (v/v) ethanol-water mixture.



e:2-hydroxy-5-methylacetophenone-N-(4-methylphenyl)imine

2. Experimental :

2.1 Materials and Solution :

All transition metal, rare earth metal, NaOH, $NaClO_4$, $HClO_4$ are of AR grade. The solutions used in the pH metric titration were prepared in double distilled CO_2free water. The NaOH solution was standardized against oxalic acid solution and standard alkali solution was again used for standardization of $HClO_4$. The measurements were made at temperatures 25°C, 35°C and 45°C in 50 % (v/v) ethanol-water mixture at constant ionic strength (0.1M $NaClO_4$).Water thermostat is used to maintain the temperature constant and the solutions were equilibrated in the thermostat for about 10-15 minutes before titration. The pH measurement was made using a digital pH meter model Elico L1-120 in conjunction with a glass and reference calomel electrode. The instrument was calibrated at pH 9.18, 7.00 and 4.00 using the standard buffer solutions.

2.2 pH metric procedures :

To calculate the protonation constant of the ligand and the formation constant of the complexes in 50% (v/v) ethanol-water mixture with different metal ions the following sets of solutions were prepared (total volume 50 ml) and titrated pH metrically against standard NaOH solution at temperature 25°C, 35°C and 45°C.

i. Free Acid $HClO_4$
ii. Free Acid $HClO_4$ + Ligand (schiff base)

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Thermodynamics of the formation of divalent Copper complexes carrying novel Schiff bases in mixed solvent media

Hansaraj Joshi[1], Rajpal Jadhav[1], Mazahar Farooqui[2], Shailendrasingh Thakur*[3]

[1]Department of Chemistry, Swa.Sawarkar College, Beed.

[2]Maulana Azad College of Arts, Science and Commerce, Aurangabad.

[3]Department of Chemistry, Milliya College, Beed.

Email: hansarajjoshi307@gmail.com , svthakur1972@gmail.com

Abstract : The stability constant of seven Schiff bases 4-hydroxy-3-(1-((5-phenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_1], 4-hydroxy-3-(1-((5-(p-tolyl)-1,3,4-thiadiazol-2-yl)imino)ethyl)-2H-chromen-2-one[S_2], 4-hydroxy-3-(1-((5-(4-nitrophenyl)-1, 3, 4-thiadiazol-2-yl) imino) ethyl)-2H-chromen-2-one [S_3], 4-hydroxy-3-(1-((5-(4-flurophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_4], 4-hydroxy-3-(1-((5-(4-chlorophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_5], 4-hydroxy-3-(1-((5-(4-bromophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_6] and 4-hydroxy-3-(1-((5-(4-iodophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_7] with divalent transition metal ion Cu^{2+} using a pH metric titration technique in 80%(v/v) ethanol-water mixture at three different temperatures 25°C, 35°C & 45°C at an ionic strength of 0.1M $NaClO_4$ were studied. The Calvin-Bjerrum method as adopted by Irving-Rossotti has been employed to determine metal-ligand stability constant logK values. The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated.

Keywords: stability constant, transition metal ion, Schiff bases, pH metry, thermodynamic parameter etc.

1. Introduction:

Metal complexes of Schiff bases play a central role in the development of coordination chemistry. pH metric titration technique is a powerful and simple electro analytical technique for determination of stability constants. Most of the d-block elements form complexes. There are different kinds of ligands used for complexation. For the present investigation, we have selected a series of seven Schiff bases.

After a review of literature and in continuation of our earlier work with complexation of Schiff bases and medicinal drugs[1-7], it was thought of interest to study the effect of

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

The International journal of analytical and experimental modal analysis ISSN NO:0886-9367

Studies of complexation of trivalent rare earth metal ion Cerium with novel Schiff bases : Thermodynamic Aspect

Hansaraj Joshi[1], Rajpal Jadhav[1], Mazahar Farooqui[2], Shailendrasingh Thakur*[3]

[1]Department of Chemistry, Swa.Sawarkar College, Beed.

[2]Maulana Azad College of Arts, Science and Commerce, Aurangabad.

[3]Department of Chemistry, Milliya College, Beed.

Email: hansarajjoshi307@gmail.com , svthakur1972@gmail.com

Abstract : **In the present work we have investigated the stability constant of seven Schiff bases 4-hydroxy-3-(1-((5-phenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_1], 4-hydroxy-3-(1-((5-(p-tolyl)-1,3,4-thiadiazol-2-yl)imino)ethyl)-2H-chromen-2-one[S_2], 4-hydroxy-3-(1-((5-(4-nitrophenyl)-1, 3, 4-thiadiazol-2-yl) imino) ethyl)-2H-chromen-2-one [S_3], 4-hydroxy-3-(1-((5-(4-fluorophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_4], 4-hydroxy-3-(1-((5-(4-chlorophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_5], 4-hydroxy-3-(1-((5-(4-bromophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_6] and 4-hydroxy-3-(1-((5-(4-iodophenyl)-1,3,4-thiadiazol-2 yl) imino) ethyl)-2H-chromen-2-one[S_7] with trivalent rare earth metal ion Ce^{3+} using a pH metric titration technique in 80%(v/v) ethanol-water mixture at three different temperatures 25°C, 35°C & 45°C at an ionic strength of 0.1M $NaClO_4$. The Calvin-Bjerrum method as adopted by Irving-Rossotti has been employed to determine metal-ligand stability constant logK values. The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated.**

Keywords: rare earth metal ion, Schiff bases, stability constant, pH metry, thermodynamic parameter etc.

1. Introduction:

Metal complexes are widely used in various fields, such as biological processes pharmaceuticals, separation techniques, analytical processes etc.To understand the complex formation ability of the ligands and the activity of complexes, it is essential to have the knowledge about solution equilibria involved in the reactions. The extent to which the ligand binds to metal ions is normally expressed in terms of stability. Metal complexes of Schiff bases play a central role in the development of coordination chemistry. pH metric titration technique is a powerful and simple electro analytical technique for determination of stability constants. Most of the f-block elements form complexes. There are different kinds of ligands used for complexation. For the present investigation, we have selected a series of seven Schiff bases.

After a review of literature and in continuation of our earlier work with complexation of Schiff bases and medicinal drugs[1-5], it was thought of interest to study the effect of temperature on thermodynamic parameters such as Gibb's free energy change ΔG, enthalpy change ΔH and entropy change ΔS of complexes of seven Schiff bases with rare earth metal ion Ce^{3+} pH metrically in 80% (v/v) ethanol-water mixture.

2. Synthesis of Schiff bases:

Synthesis of all seven Schiff bases was done by reported methods. The compounds 3-acetyl-4-hydroxy-2H-chromen-2-one and 2-amino thiadiazole derivatives were the intermediates for preparing novel Schiff bases 4-hydroxy-3-(1-((5-substitutedphenyl)-1,3,4-thiadiazol-2-yl)imino)ethyl)-2H-chromen-2-one. The ketone, 3-acetyl-4-hydroxychromen-2-one was prepared from 4-hydroxy coumarin and acetic acid in presence of $POCl_3$ by refluxing for 30 minutes[6]. The aromatic amine, 5-(4-

'RESEARCH JOURNEY' International Multidisciplinary E- Research Journal
Impact Factor - (SJIF) – 6.625, (CIF) - 3.452(2015), (GIF)–0.676 (2013)
Special Issue 199 : Roll of ICT in Higher Education
ISSN : 2348-7143
October-2019

Mixed Ligand Complexes of Cadmium Metal Ion with Diphenhydramine and Amino Acids in Aqueous Media

Shailendrasingh Thakur1, H.U.Joshi2, M.A. Sakhare3 and Ramesh Ware1
1Department of Chemistry, Milliya College Beed.
2Department of Chemistry, Swa.Sawarkar College, Beed.
3Department of Chemistry, Balbhim College Beed.
Email: ramesh.ware50@gmail.com

Abstract:

In the present study the stability constant of the mixed ligand complexes of Cd (II) ion with drug Diphenhydramine as primary ligand and eight amino acids glycine, DL-alanine, L-glutamic acid, DL-isoleucine, DL-methionine, DL-β-phenyl alanine, DL-serine and DL-valine as secondary ligands were determined potentiometric technique in 20% (v/v) ethanol-water medium at 27 °C and at an ionic strength of 0.1 M NaClO4. The formation of complex species has been evaluated by SCOGS computer program and discussed in terms of various relative stability parameters.

Keywords: stability constant, Diphenhydramine drug, amino acids, mixed ligand complexes.

Introduction:

Diphenhydramine is first generation antihistamines mainly used to treat allergies. It has a powerful hypnotic effect and often it is used as a nonprescription sleep aid and a mild anxiolytic and antipsychotics. It is also used to treat motion sickness, insomnia, cough, nausea and phenothiazine drug induced abnormal muscle movement. The physical properties of medicinal drug Diphenhydramine are shown below:

Sr.No.	Physical property	Value
1	Molecular weight	291.855 g/mol
2	Phase	Solid (at STP)
3	Melting point	188 °C
4	Boiling Point	343.7 °C
5	Density	1.024 g/cm3
6	Colour	White
7	Solubility	Soluble in water [3.06 mg/ml (at 27 °C)

In continuation of earlier work with complexation of medicinal drug[1-30], we study ternary complexes of Cd metal ion with medicinal drug Diphenhydramine {2-(diphenylmethoxy)-*N,N*-dimethyl ethanamine hydrochloride}as primary ligand and eight amino acids as secondary ligands in ethanol-water media at 27 °C and at 0.1M $NaClO_4$ ionic strength.

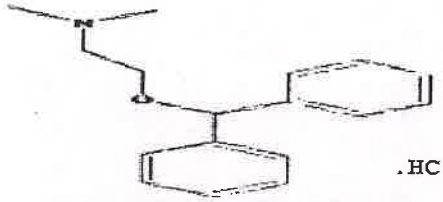


Figure 1: Diphenhydramine hydrochloride (molecular formula $C_{17}H_{22}ClNO$)

Experimental: Materials and Solution:

Principal
Swa.Sawarkar Mahavidyalaya, Beed.

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

ISSN: 2395-3160 (Print)

20

STUDY OF COMPLEXATION OF DIVALENT TRANSITION AND TRIVALENT LANTHANIDE METAL IONS WITH SCHIFF BASE 2-HYDROXY-5-BROMO ACETOPHENONE-N-(2-CHLORO-5-NITROPHENYL) IMINE: THERMODYNAMIC ASPECT

Hansaraj Joshi[1], M.A. Sakhare[2], S.D.Naikwade[3] and Shailendrasingh Thakur[4]
[1]Department of Chemistry, Swa.Sawarkar College, Beed.
[2]Department of Chemistry, Balbhim College, Beed.
[3]Department of Chemistry, Chhatrapati Shahu College, Lasur Station, Aurangabad.
[4]Department of Chemistry, Milliya College, Beed.
hansarajjoshi307@gmail.com,

Abstract:
The stability constant of schiff base 2-hydroxy-5-bromo acetophenone-N-(2-chloro-5-nitrophenyl) imine with divalent transition metal ions Cu^{2+},Ni^{2+},Cd^{2+},Co^{2+},Mn^{2+}, Zn^{2+} and trivalent lanthanide metal ions La^{3+}, Ce^{3+}, Pr^{3+}, Nd^{3+}, Sm^{3+}, Eu^{3+}, Gd^{3+}, Tb^{3+}, Dy^{3+} and Ho^{3+} using a pH metric titration technique in 50%(v/v) ethanol-water mixture at three different temperatures 25°C, 35°C & 45°C at an ionic strength of 0.1M $NaClO_4$ were studied. The Calvin-Bjerrum method as adopted by Irving-Rossotti has been employed to determine metal-ligand stability constant logK values. The trend in the formation constants for transition metal ions follows the order: $Cu^{2+}>Zn^{2+}>Ni^{2+}>Cd^{2+}>Co^{2+}>Mn^{2+}$ and for lanthanide metal ions $La^{3+}<Ce^{3+}<Pr^{3+}<Nd^{3+}<Sm^{3+}<Eu^{3+}>Gd^{3+}<Tb^{3+}<Dy^{3+}> Ho^{3+}$ and shows a break at gadolinium. The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated. The formations of metal complexes were found to be spontaneous, exothermic in nature and favorable at lower temperature.
Keywords: stability constant, transition metal ions, lanthanide metal ions, schiff base, pH metric, thermodynamic parameter etc.

Introduction:

Metal complexes of schiff bases play a central role in the development of coordination chemistry. pH metric titration technique is a powerful and simple electro analytical technique for determination of stability constants. Most of the d-block and f-block elements form complexes. There are different kinds of ligands used for complexation. For the present investigation, we have selected schiff base 2-hydroxy-5- bromo acetophenone-N-(2-chloro-5-nitrophenyl) imine, having molecular formula $C_{14}H_{10}O_3N_2BrCl$

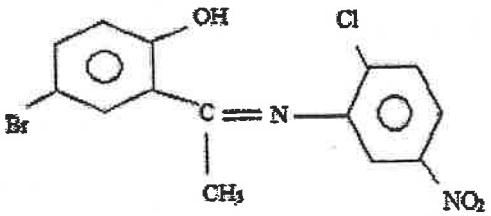


Figure: ***2-hydroxy-5- bromo acetophenone-N-(2-chloro-5-nitrophenyl)imine***

In continuation of our earlier work with complexation of schiff base [1-11] and after literature survey it was thought of interest to study the effect of temperature on thermodynamic parameters such as Gibb's free energy change ΔG, enthalpy change ΔH and entropy change ΔS of complexes of 2-

85

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed

152 152

Dept. of Chemistry 2019-20 (4)

'RESEARCH JOURNEY' *International Multidisciplinary E- Research Journal*
Impact Factor - (SJIF) – 6.625, (CIF) - 3.452(2015), (GIF)–0.676 (2013)
Special Issue 199 : Roll of ICT in Higher Education
ISSN : 2348-7143
October-2019

Student Participation in Attainment of Graduate Attributes

H.U. Joshi[1], S.V.Thakur[2], G.M. Dhond[1]
1Swa. SawarkarMahavidyalaya, Beed
2 Milliya Arts, Science & Management Sci. College, Beed
hansarajjoshi307@gmail.com

Abstract:

Graduate attributes is the key word used now a days in the field of higher education. Higher education institutes play significant role in human resourse development and thus contributing in the national development. HEIs through well planned and strucutured activities ensures in the attainment of these desired graduate attributes. Participation of students in decision making as well as implementation of activities and programms in HEIs facilitates the early attainment of these attributes.

Key words: Graduateattributes, student participation, learning outcomes

Graduate attributes are the set of qualities, skills and understandings those the students should develop during their time with the Higher Education institution HEI. The graduate attributes means the particular quality and feature or characteristics of an individual, including the knowledge, skills, attitudes and values that are expected to be acquired by a graduate through studies at the higher education institution such as college or university. The graduate attributes include capabilities that help to strengthen one's abilities for widening current knowledge base and skills, gaining new knowledge and skills, undertaking future studies, performing well in a chosen career and playing a constructive role as a responsible citizen in the society.

The graduate attributes define the characteristics of student's universitydegree programmes, and describe a set of characteristics/competencies that are transferable beyond study of a particular subject areaand program contexts in which they have been developed. Graduate attributes are fostered through meaningful learning experiences and a process of critical and reflective thinking. Every individual student is unique and has her/his own characteristics in terms of previous learning levels and experiences, life experiences, learning styles and approaches to future career related actions.The higher education institutions help to develop thegraduate attributes by providing quality education through deep learning experiences to the students while their stay at HEI. The graduate attributes reflect both disciplinary knowledge and understanding, generic skills including global competencies that all students in different academic fields of study should acquire /attain and demonstrate.

Some of the characteristics attributes that a graduate should demonstrate are as follows:
Disciplinary knowledge: Capable of demonstrating comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate programme of study.

Communication skills:

Ability to express thoughts and ideas effectively in writing and orally; communicate with others using appropriate media; confidently share one's views and express herself or himself; demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups.

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

164

164

Dept. of chemistry 2019-20 (3)

Journal of Global Resources Volume 5 (02) July 2019 Special Issue Page 220-223
ISSN: 2395-3160 (Print)

THERMODYNAMIC STUDY OF COMPLEXATION OF TRANSITION METAL IONS WITH SCHIFF BASE 2-HYDROXY-5-BROMO ACETOPHENONE-N-(4-METHYLPHENYL) IMINE IN 50%(V/V) ETHANOL-WATER MEDIUM

RajpalJadhav[1], Hansaraj Joshi[1], S.D.Naikwade[2] S.B.Ubale[2]andS hailendrasingh Thakur[3]
[1]Department of Chemistry, Swa.Sawarkar College, Beed.
[2]Principal, ChhatrapatiShahu College, Lasur Station, Aurangabad.
[2]Chemistry Department ,R.B.AttalCollege,Georai
[3]Dept. of Chemistry, Milliya Art's Science and Management Science College, Beed.
rajpaljadhav567@gmail.com

Abstract: The stability constant ofschiff base2-hydroxy-5-bromoacetophenone-N-(4-methylphenyl) iminewith divalent transition metal Cu^{2+},Ni^{2+},Cd^{2+},Co^{2+},Mn^{2+} and Zn^{2+} using apHmetric titration technique in 50%(v/v) ethanol-water mixture atthree different temperatures 25°C, 35°C & 45°C at an ionic strength of 0.1M $NaClO_4$ were studied. The method of Calvin-Bjerrum as adopted by Irving-Rossotti has been employed to determine metal-ligand stability constant logKvalues. The trend in the formation constants is as: ***Cu^{2+}> Ni^{2+}> Co^{2+}> Cd^{2+}> Zn^{2+}>Mn^{2+}***. The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated. The formations of metal complexes were found to be spontaneous, exothermic in nature and favorable at lower temperature.

Keywords: Transitionmetal,schiff base, pH metry,thermodynamic parameteretc.

Introduction: pH metric titration is accepted as a powerful and simple electro analytical technique for determination of stability constants. Metal complexes of schiff bases have played a central role in the development of coordination chemistry. Most of the d-block elements form complexes.Thereare different kinds of ligands used for complexation. For the present investigation, we have selectedschiff base2-hydroxy-5-bromo acetophenone-N-(4-methylphenyl) imine,having molecular formulaC15H14ONBr

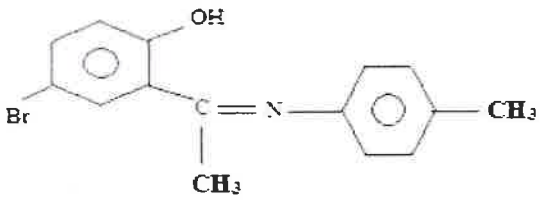


Figure: *2-hydroxy-5-bromoacetophenone-N-(4-methylphenyl)imine*

After literature survey and in continuation of earlier work with complexation of schiff base[1-11], it was thought of interest to study the effect of temperature on thermodynamic parameters such as Gibb's free energy change ΔG, enthalpy change ΔH and entropy change ΔS of complexes of2-hydroxy-5-bromoacetophenone-N-(4-methylphenyl) iminewith six divalent transition metals Cu^{2+},Ni^{2+},Cd^{2+},Co^{2+},Mn^{2+} and Zn^{2+} using pH metrically in 50% (v/v)ethanol-water mixture.

Experimental

Materials and Solution: All divalenttransitionmetal salts,NaOH, $NaClO_4$,$HClO_4$are of AR grade.The solutions used in the pH metric titration were prepared in double distilled CO_2free water. TheNaOH solution was standardized against oxalic acid solution and standard alkali solution was again used for standardization of $HClO_4$. The transitionmetal salt solutions were also standardized

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Journal of Research and Development | Volume 10, Special Issue
Title : Innovative Ideas in Chemical Science and Environment Science for Sustainable Development-2020
ISSN : 2230-9578
January 2020

Potentiometric investigation of complexation of Benazepril drug with alkaline earth metal ions in aqueous media.

Rajpal Jadhav[1], Ramesh Ware[2] and Shailendrasingh Thakur[2]
[1]Department of Chemistry, Swa.Sawarkar College, Beed.
[2]Department of Chemistry, Milliya Arts, Science and Management Science College, Beed.

Abstract :
In the present work we investigate the stability constant of Benazepril hydrochloride drug with alkaline earth metal ions Mg(II) and Ca(II) using potentiometric titration technique in 20 % (v/v) ethanol-water mixture at 27 °C temperature and at an ionic strength of 0.1M NaClO4.{Metal to ligand ratio = 1:5and 1:1}The method of Calvin and Bjerrum as adopted by Irving and Rossotti has been employed to determine proton ligand (pKa) and metal-ligand stability constant (log K) values. It is observed that alkaline earth metal ion forms 1:1 and 1:2 complexes.

Key Words : Stability constant, alkaline earth metal ions, Benazepril drug, Potentiometric etc.

Introduction :

Chemistry of drugs attracts many researchers because of its application in medicinal study. The stability of metal complexes with medicinal drugs plays a major role in the biological and chemical activity. Metal complexes are widely used in various fields, such as biological processes pharmaceuticals, separation techniques, analytical processes etc. To understand the complex formation ability of the ligands and the activity of complexes, it is essential to have the knowledge about solution equilibria involved in the reactions. The extent to which the ligand binds to metal ions is normally expressed in terms of stability. Potentiometric titration is accepted as a powerful and simple electro analytical technique for determination of stability constants. Most of the s-block elements form complexes. Mg (II) ions form complexes with several enzymes which are essential for energy release. They are also important for transmission of impulses along the nerve fibres. Ca (II) is important in bone, teeth and blood clotting. It maintains the regular breathing of hearts, contraction of muscles[1].

There are different kinds of ligand used for complexation. For the present investigation, we selected Benazepril hydrochloride (BEN). Benazepril (3-[(1-ethoxy carbonyl- 3 -phenyl-(1*S*)-propyl)-amino]-2,3,4,5 -tetrahydro- 2 –oxo-1-(3*S*)-benazepine-1-acetic acid hydrochloride), is a prod rug type angiotensin-converting enzyme (ACE) inhibitor, which is proved effective in treating congestive heart failure and hypertension. The family of ACE inhibitors inhibits the angiotensin-converting enzyme, which is involved in the conversion of angiotensin I to angiotensin II. The physical properties of medicinal drug Benazepril hydrochloride are shown below:

Sr. No.	Physical property	Value
1	Molecular weight	460.98.g/mol
2	Phase	Solid (at STP)
3	Melting point	189 °C
4	Boiling Point	691.2 °C
5	Density	1.269 g/cm^3
6	Colour	White
7	Solubility	Soluble in water (>100 mg/mL)

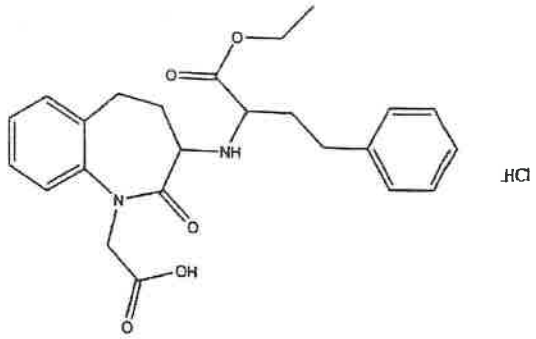


Figure 1: Benazepril hydrochloride (molecular formula is $C_{24}H_{29}N_2O_5Cl$)

After a review of literature survey and in continuation of our earlier work with complexation of medicinal drugs[2-29], we have carried out a solution study on the complexation of Benazepril drug with alkaline earth metal ions Mg(II) and Ca(II) using pH metrically in 20 % (v/v)ethanol-water mixture at constant ionic strength of 0.1M $NaClO_4$.

Dept. of chemistry 2018-19

RESEARCH JOURNEY International Multidisciplinary E-Research Journal
Impact Factor - (SJIF) – 6.261, (CIF) - 3.452, (GIF) –0.676 Issue 168(A)
March 2019
UGC Approved No. 40705

Stability study of complexation of transition metals with schiff base 2-hydroxy-5-bromoacetophenone-N-(4-methoxyphenyl) imine: Thermodynamic aspect

Shailendrasingh Thakur[1],Hansaraj Joshi*[2], M.A. Sakhare[3]and S.D.Naikwade[4]
[1]Dept. of Chemistry, Milliya Art's Science and Management Science College, Beed.
[2]Dept. of Chemistry, Swa.Sawarkar College, Beed.
[3]Dept. of Chemistry, Balbhim College, Beed.
[4]Principal, ChhatrapatiShahu College, Lasur Station, Aurangabad.

Abstract:
Stability constant ofschiff base2-hydroxy-5-bromoacetophenone-N-(4-methoxyphenyl) iminewith diivalenttransition metalCu^{2+},Ni^{2+},Cd^{2+},Co^{2+},Mn^{2+} and Zn^{2+} using apHmetric titration technique in 50%(v/v) ethanol-water mixture atthree different temperatures 25°C, 35°C & 45°C at an ionic strength of 0.1M $NaClO_4$ were studied. The method of Calvin-Bjerrum as adopted by Irving-Rossotti has been employed to determine metal-ligand stability constant logKvaluës. The trend in the formation constants is as: $Cu^{2+}> Cd^{2+}>Ni^{2+}>Zn^{2+}>Co^{2+}>Mn^{2+}$The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated. The formations of metal complexes were found to be spontaneous, exothermic in nature and favorable at lower temperature.
Keywords:stability constant,transition metalions, schiff base, pH metry,thermodynamic parameteretc.

1. Introduction: Metal complexes of schiff bases have played a central role in the development of coordination chemistry. pHmetric titration is accepted as a powerful and simple electro analytical technique for determination of stability constants. It is also well known that some schiff basesexhibit increased activity when administered as metal complexes. Most of the d-block elements form complexes.Thereare different kinds of ligands used for complexation. For the present investigation. schiff base2-hydroxy-5-bromo acetophenone-N-(4-methoxyphenyl) imine,having molecular formulaC15H14O2NBr, was selected.

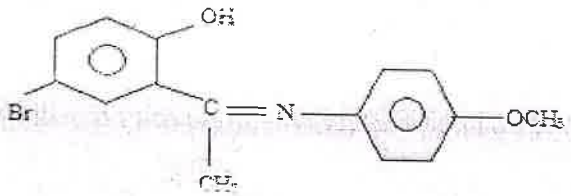


Figure: 2-hydroxy-5-bromo acetophenone-N-(4-methoxyphenyl) imine

In continuation of earlier work with complexation of schiff base [1-9] and after literature survey it was thought of interest to study the effect of temperature on thermodynamic parameters such as Gibb's free energy change ΔG, enthalpy change ΔH and entropy change ΔS of complexes of2-hydroxy-5-bromo acetophenone-N-(4-methoxyphenyl) iminewith transition metal ions Cu^{2+},Ni^{2+},Cd^{2+},Co^{2+},Mn^{2+} and Zn^{2+} pH metrically in 50% (v/v)ethanol-water mixture.

2.Experimental

2.1Materials and Solution

All transition metal salts,$HClO_4$,NaOH, $NaClO_4$,were of AR grade.The solutions were used in the pH metric titration were prepared in double distilled CO_2free water. TheNaOH solution was standardized against oxalic acid solution and standard alkali solution was again used for standardization of $HClO_4$. The transition metalsalt solutions were standardized using EDTA.All the measurements were made atthree different temperatures25°C, 35°Cand 45°C in 50% (v/v) ethanol-water mixture at constant ionic strength of 0.1M $NaClO_4$.The water thermostat model SL-131was used to maintain the temperature constant.The solutions were equilibrated in the thermostat for 10-15 minutes before titration. The pH measurement was made using a digital pH meter model Elico L1-120 in conjunction with a glass and reference calomel electrode (reading accuracy ±0.01 pH units). The instrument was calibrated at pH 4.00, 7.00 and 9.18 using the standard buffer solutions.

2.2pH metric procedures

For evaluating the protonation constant of the ligand and the formation constant of the complexes in 50% (v/v) ethanol-water mixture with different metal ions the following sets of solutions were prepared (total volume 50 ml) and titrated pH metrically against standard NaOH solution at three different temperature 25°C, 35°C and 45°C.

i. Free acid $HClO_4$
ii. Free acid $HClO_4$ + Ligand (schiff base)
iii. Free acid $HClO_4$ + Ligand (schiff base) + Metal solution

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalaya Beed

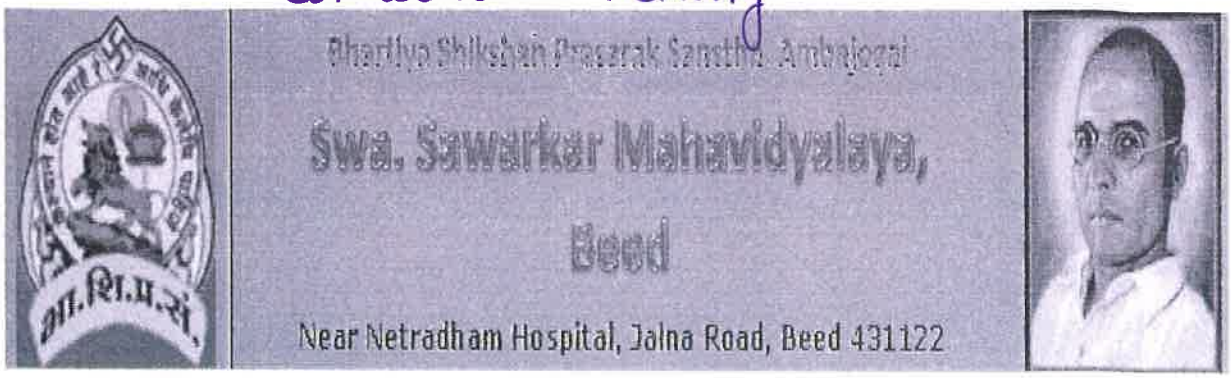
Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

125 125

2018-19

11

Dept of chemistry
Collaborative Activity



Affiliated to

DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD

CHEMISTRY DEPARTMENT

GUEST LECTURE/SPECIAL LECTURE

REPORT

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S. Ambajogai

Detail Report

Title of Programme:		Guest Lecture		
Name of Organizing Department/Unit:		Department of Chemistry, Swa. Sawarkar Mahavidyalaya, Beed in Collaboration with Department of Chemistry, Milliya College, Beed		
Name of the Coordinator(s)/Convener(s)/ Organizer(s) of the Programme:		**Organizing Secretary:** Joshi H. U. **Co-coordinator:** Jadhav R. L. **Convener:** Naiknaware V. V.		
Date(s) of the Programme:		18.9.2018		
Venue:		Swa. Sawarkar Mahavidyalaya, Beed		
Target Group:		Student		
Numberof Participants:		**Male**	**Female**	**Total**
	Teaching	06	01	07
	Non-teaching	---	--	--
	Students	19	16	35
Name(s) and details of Resource Person(s),		Dr. Abdul Rahem, Assistant Professor, Department of Chemistry, Milliya College, Beed		
Topic		Organic Reaction Mechanism		
Total Expenditure for the Programme:		Nil		
Source of Funding:		Nil		

Brief Summary of Events/Sessions: Dr. Rahem enlightened about the fundamentals of reaction mechanism in organic chemistry.

Conclusion, with Feedback on the Programme: This lecture benefited students to know about mechanism behind organic reactions.

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S. Ambajogai

Notice

Students of B.Sc. FY are hereby informed that Department of Chemistry is going to organize a guest lecture on 18 September 2018 during 9.48-10.36am in Hall No. B109. **Dr. Abdul Rahem,** Assistant Professor, Department of Chemistry, Milliya College, Beed will enlighten on "Organic Reaction Mechanism".

HEAD
Department Of Chemistry
Swa Sawarkar Mahavidyalaya, Beed

Date: 12/9/2018

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Swa.Sawarkar Mahavidyalaya, Beed. B.S.P.S. Ambajogai

SSMB/2018-2019/ **Date : 18/09/2018**

To,

Dr. Abdul Rahem,

Assistant Professor,

Department of Chemistry,

Milliya College, Beed

Subject: Letter of Thanks

Respected Sir,

We are grateful for delivering a lecture on "Organic Reaction Mechanism" on 18 September 2018 for B.Sc. First Year students. The lecture was helpful for students. As per students' feedback, it was informative with total clarity.

Thanking You.

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Swa.Sawarkar Mahavidyalaya, Beed
Ambajogai

SSMB/2018-2019/
12.09.2018

Date :

To,

Dr. Abdul Rahem,

Assistant Professor,

Department of Chemistry,

Milliya College, Beed

Subject : Invitation as a Guest Lecture

Respected Sir,

Department of Chemistry is going to organize a guest lecture on "Organic Reaction Mechanism" on 18 September 2018 during 9.48-10.36am for B.Sc. First Year students. You are requested to enlighten students on the said topic.

Kindly convey your consent and oblige.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Swa. Sawarkar Mahavidyalaya, Beed
Department of Chemistry
Guest Lecture
18 September 2018

Class: B.Sc. First Year Time: 9.48 – 10.36

List of Attendance

Sr. No.	Name of Student	Mobile No.	Signature
1	Kasbe Shivani Sanjay	8698787751	Shivani
2	Aishwarya Ramrao Pimple	9860737328	Aishwarya
3	Ane Sayali Raju	9975212995	Sayali
4	Raut sayali K.	8888682772	Sayali.
5	Rajapurkar Pooja P.	7588336840	Pooja
6	Komal Dahibhate	9764752481	Dahibhate.
7	Gole Sonali D.	7709061381	Sonali
8	Kadam Dnyaneshwari	7447825045	Kadam
9	Bedre Gitanjalee Ramesh	9455634[illegible]0	Bedre
10	Priyanka Bhandwale	9146582396	Priyanka
11	Shevkar Apurva	7498191976	Apurva
12	Varpe Vaishanavi	9673063015	Vaishnavi
13	Ghumare Sujata Sandip	8554022148	Sujata

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Swa. Sawarkar Mahavidyalaya, Beed
B.S.P.S. Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed
Department of Chemistry
Feedback Form Students

Name of the Event : Guest Lecture
Name of the Topic : Organic reaction mechanism.

Name of Teacher : Dr. Abdul Rahem.

Date : 18 / 9 /2018 **Time :** 9:48-

Name of the student: Neha Anant Patange. **Class: B.Sc. First Year**

	Excellent	Good	Average	Not Satisfactory
Preparation of topic		✓		
Expression		✓		
Conceptual Understanding			✓	
Method of Teaching			✓	
Usefulness		✓		

Apatange.

Swa. Sawarkar Mahavidyalaya, Beed
Department of Chemistry
Feedback Form Students

Name of the Event : Guest Lecture
Name of the Topic : Organic reation mechanism

Name of Teacher : D.r Abdul Rehem

Date : 18 / 9 /2018 **Time:** 9:48

Name of the student: Gadhar Roham Balasahed **Class: B.Sc. First Year**

	Excellent	Good	Average	Not Satisfactory
Preparation of topic		✓		
Expression		✓	✓	
Conceptual Understanding			✓	
Method of Teaching			✓	
Usefulness		✓		

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

HEAD
Department Of Chemistry
Swa. Sawarkar Mahavidyalaya Beed

Established-1995

BhartiyaShikshanPrasarakSantha's, Ambajogai

Swa. Sawarkar Mahavidyalaya,Beed

(Art's, Science & Commerce)

NAAC– RE-ACCREDITED GRADE-B

Dr. P.D. Pohekar

M.A.,SET,M.Phil.,Ph.D.

•Website: https://www.sawarkarcollegebeed.edu.in

•E-mail: veersawarkarbeed@gmail.Com

Following activities were carried out during the assessment period 2018-2023 by **Department of Chemistry, Swa. Sawarkar Mahavidyalaya, Beed**with the collaboration partner **Department of Chemistry,Balbhim Mahavidyalaya, Beed.**

Sr. No.	Collaborative Activity	Participants	Nature of Collaboration	Academic Year
1	Research Publication	Sailendrasingh Thakur, H. U. Joshi, M.A. Sakhare and Ramesh Ware	**Joint Manuscript:** Mixed ligand complexes of Cadmium metal ion with diphenhydramine and amino acids in aqueous media; Research Journey International Multi-disciplinary E-Research Journal, October-2019	2019-20
2	Research Publication	ShailendrasinghThakur, Hansaraj Joshi, M. A. Sakhare and S.D. Naikwade	**Joint Manuscript:** Study of complaxation of divalent transition and trivalent lanthanide metal ions with Sciff's Base 2-Hydroxy-5-bromo- acetophenone-N-(2-Chloro-5-nitrophenyl) imine: thermodynamic aspect; Journal of Global Resources Volume 5 (02) July 2019	2019-20
3	Research Publication	Shailendrasingh Thakur, Hansaraj Joshi, M. A. Sakhare and S.D. Naikwade	**Joint Manuscript:** Stability study of complexation of transition metals with Sciff Base 2-Hydroxy-5-bromoacetophenone-N-(4-methoxyphenyl) imine: thermodynamic aspects; Research Journey International Multi-disciplinary E-Research Journal, March-2019	2018-19

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

I/C Principal
Balbhim Art, Science & Comm
College, Beed

Collaboration

Inbetween

Department of Chemistry, Balbhim Arts, Science and Commerce College, Beed &

Department of Chemistry, Swa.Sawarkar Mahavidyalysa Beed

(For the academic year 2023-2024 to 2027-2028)

Collaborative works between academic institutes is a key of success in educational efforts. It plays a very vital role in research and educational fields. It encourages excellent research working attitude.

Collaboration between departments encourages and facilitates the development of research and educational programmes leading to enhancement of research development and intellectual atmosphere on the campuses of the collaborating institutions.

So keeping in view the above facts we (Department of Chemistry, Balbhim Arts, Science and Commerce College, Beed & Department of Chemistry, Swa. Sawarkar mahavidyalya, Beed) hereby agree to collaborate for the following activities to achieve the above aims.

- Research & academic activities
- Curriculum designing
- Visiting faculty
- Laboratory facilities
- Extension, innovation & best practices

Head, Department of Chemistry
Balbhim College Beed

Head
Department of Chemistry
Balbhim College, Beed

Head, Department of Chemistry
Swa. Sawarkar Mahavidyalya Beed

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal,
Balbhim College Beed

I/C Principal
Balbhim Art, Science & Comm
College, Beed

Principal
Swa. Sawarkar Mahavidyalya Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Date: 11/07/2023
Place: Beed

Collaboration

Inbetween

Department of Chemistry, Balbhim Arts, Science and Commerce College, Beed &

Department of Chemistry, Swa.Sawarkar Mahavidyalysa Beed

(For the academic year 2022-2023)

Collaborative works between academic institutes is a key of success in educational efforts. It plays a very vital role in research and educational fields. It encourages excellent research working attitude.

Collaboration between departments encourages and facilitates the development of research and educational programmes leading to enhancement of research development and intellectual atmosphere on the campuses of the collaborating institutions.

So keeping in view the above facts we (Department of Chemistry, Balbhim Arts, Science and Commerce College, Beed & Department of Chemistry, Swa. Sawarkar mahavidyalya, Beed) hereby agree to collaborate for the following activities to achieve the above aims.

- Research & academic activities
- Curriculum designing
- Visiting faculty
- Laboratory facilities
- Extension, innovation & best practices

Head, Department of Chemistry
Balbhim College Beed

Head
Department of Chemistry
Balbhim College, Beed

Head, Department of Chemistry
Swa. Sawarkar Mahavidyalya Beed

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalaya, Beed.

Principal,
Balbhim College Beed

I/C Principal
Balbhim Art, Science & Comm
College, Beed

Principal
Swa. Sawarkar Mahavidyalya Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Date: 22/06/2022
Place: Beed

(14) (17)

Collaboration

Inbetween

Department of Chemistry, Balbhim Arts, Science and Commerce College, Beed &

Department of Chemistry, Swa. Sawarkar Mahavidyalaya Beed, Dist. Beed

(For the academic year 2017-2018 to 2021-2022)

Collaborative works between academic institutes is a key of success in educational efforts. It plays a very vital role in research and educational fields. It encourages excellent research working attitude.

Collaboration between departments encourages and facilitates the development of research and educational programmes leading to enhancement of research development and intellectual atmosphere on the campuses of the collaborating institutions.

So keeping in view the above facts we (Department of Chemistry, Balbhim Arts, Science and Commerce College, Beed & Department of Chemistry, Swa. Sawarkar Mahavidyalaya Beed, Dist. Beed) hereby agree to collaborate for the following activities to achieve the above aims.

- Research & academic activities
- Curriculum designing
- Visiting faculty
- Laboratory facilities
- Extension, innovation & best practices

Head, Department of Chemistry
Balbhim College Beed

Department of Chemistry
Balbhim College, Beed

Head, Department of Chemistry
Swa. Sawarkar Mahavidyalaya Beed.

Department Of Chemistry
Swa. Sawarkar Mahavidyalaya, Beed

Principal,
Balbhim College of Arts, Science
& Commerce, Beed
District Beed-431122

Principal
Swa. Sawarkar Mahavidyalaya Beed.

Date: 31/07/2017
Place: Beed

'RESEARCH JOURNEY' International Multidisciplinary E- Research Journal
Impact Factor - (SJIF) - 6.625, (CIF) - 3.452(2015), (GIF)-0.676 (2013)
Special Issue 199 : Roll of ICT in Higher Education
ISSN : 2348-7143
October-2019

Mixed Ligand Complexes of Cadmium Metal Ion with Diphenhydramine and Amino Acids in Aqueous Media

Shailendrasingh Thakur1, H.U.Joshi2, M.A. Sakhare3 and Ramesh Ware1
1Department of Chemistry, Milliya College Beed.
2Department of Chemistry, Swa.Sawarkar College, Beed.
3Department of Chemistry, Balbhim College Beed.
Email: ramesh.ware50@gmail.com

Abstract:

In the present study the stability constant of the mixed ligand complexes of Cd (II) ion with drug Diphenhydramine as primary ligand and eight amino acids glycine, DL-alanine, L-glutamic acid, DL-isoleucine, DL-methionine, DL-β-phenyl alanine, DL-serine and DL-valine as secondary ligands were determined potentiometric technique in 20% (v/v) ethanol-water medium at 27 °C and at an ionic strength of 0.1 M NaClO4. The formation of complex species has been evaluated by SCOGS computer program and discussed in terms of various relative stability parameters.

Keywords: stability constant, Diphenhydramine drug, amino acids, mixed ligand complexes.

Introduction:

Diphenhydramine is first generation antihistamines mainly used to treat allergies. It has a powerful hypnotic effect and often it is used as a nonprescription sleep aid and a mild anxiolytic and antipsychotics. It is also used to treat motion sickness, insomnia, cough, nausea and phenothiazine drug induced abnormal muscle movement. The physical properties of medicinal drug Diphenhydramine are shown below:

Sr.No.	Physical property	Value
1	Molecular weight	291.855 g/mol
2	Phase	Solid (at STP)
3	Melting point	188 °C
4	Boiling Point	343.7 °C
5	Density	1.024 g/cm3
6	Colour	White
7	Solubility	Soluble in water [3.06 mg/ml (at 27 °C)

In continuation of earlier work with complexation of medicinal drug[1-30], we study ternary complexes of Cd metal ion with medicinal drug Diphenhydramine {2-(diphenylmethoxy)-*N,N*-dimethyl ethanamine hydrochloride}as primary ligand and eight amino acids as secondary ligands in ethanol-water media at 27 °C and at 0.1M $NaClO_4$ ionic strength.

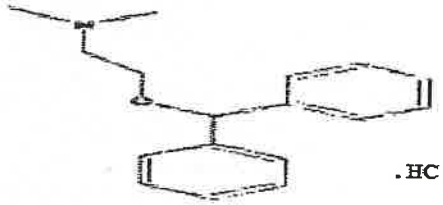


Figure 1: Diphenhydramine hydrochloride (molecular formula $C_{17}H_{22}$

Experimental: Materials and Solutions:

Principal
Swa.Sawarkar Mahavidyalaya, Beed.

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Dept. of chemistry 2019-20

Journal of Global Resources Volume 5 (02) July 2019 Special Issue Page 87-88
ISSN: 2395-3160 (Print)

20

STUDY OF COMPLEXATION OF DIVALENT TRANSITION AND TRIVALENT LANTHANIDE METAL IONS WITH SCHIFF BASE 2-HYDROXY-5-BROMO ACETOPHENONE-N-(2-CHLORO-5-NITROPHENYL) IMINE: THERMODYNAMIC ASPECT

Hansaraj Joshi[1], M.A. Sakhare[2], S.D.Naikwade[3] and Shailendrasingh Thakur[4]
[1]Department of Chemistry, Swa.Sawarkar College, Beed.
[2]Department of Chemistry, Balbhim College, Beed.
[3]Department of Chemistry, Chhatrapati Shahu College, Lasur Station, Aurangabad.
[4]Department of Chemistry, Milliya College, Beed.
hansarajjoshi307@gmail.com,

Abstract:
The stability constant of schiff base 2-hydroxy-5-bromo acetophenone-N-(2-chloro-5-nitrophenyl) imine with divalent transition metal ions Cu^{2+},Ni^{2+},Cd^{2+},Co^{2+},Mn^{2+}, Zn^{2+} and trivalent lanthanide metal ions La^{3+}, Ce^{3+}, Pr^{3+}, Nd^{3+}, Sm^{3+}, Eu^{3+}, Gd^{3+}, Tb^{3+}, Dy^{3+} and Ho^{3+} using a pH metric titration technique in 50%(v/v) ethanol-water mixture at three different temperatures 25°C, 35°C & 45°C at an ionic strength of 0.1M $NaClO_4$ were studied. The Calvin-Bjerrum method as adopted by Irving-Rossotti has been employed to determine metal-ligand stability constant logK values. The trend in the formation constants for transition metal ions follows the order: $Cu^{2+}>Zn^{2+}>Ni^{2+}>Cd^{2+}>Co^{2+}>Mn^{2+}$ and for lanthanide metal ions $La^{3+}<Ce^{3+}<Pr^{3+}<Nd^{3+}<Sm^{3+}<Eu^{3+}>Gd^{3+}<Tb^{3+}<Dy^{3+}> Ho^{3+}$ and shows a break at gadolinium. The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated. The formations of metal complexes were found to be spontaneous, exothermic in nature and favorable at lower temperature.
Keywords: stability constant, transition metal ions, lanthanide metal ions, schiff base, pH metric, thermodynamic parameter etc.

Introduction:

Metal complexes of schiff bases play a central role in the development of coordination chemistry. pH metric titration technique is a powerful and simple electro analytical technique for determination of stability constants. Most of the d-block and f-block elements form complexes. There are different kinds of ligands used for complexation. For the present investigation, we have selected schiff base 2-hydroxy-5- bromo acetophenone-N-(2-chloro-5-nitrophenyl) imine, having molecular formula $C_{14}H_{10}O_3N_2BrCl$

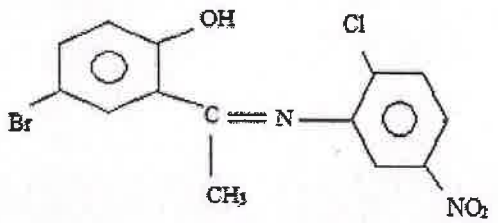


Figure: ***2-hydroxy-5- bromo acetophenone-N-(2-chloro-5-nitrophenyl)imine***

In continuation of our earlier work with complexation of schiff base [1-11] and after literature survey it was thought of interest to study the effect of temperature on thermodynamic parameters such as Gibb's free energy change ΔG, enthalpy change ΔH and entropy change ΔS of complexes of 2-

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed

152 152

RESEARCH JOURNEY International Multidisciplinary E-Research Journal
Impact Factor - (SJIF) – 6.261, (CIF) - 3.452, (GIF) –0.676 Issue 168(A) March 2019 UGC Approved No.40705

Stability study of complexation of transition metals with schiff base 2-hydroxy-5-bromoacetophenone-N-(4-methoxyphenyl) imine: Thermo dynamic aspect

Shailendrasingh Thakur[1],Hansaraj Joshi*[2], M.A. Sakhare[3]and S.D.Naikwade[4]
[1]Dept. of Chemistry, Milliya Art's Science and Management Science College, Beed.
[2]Dept. of Chemistry, Swa.Sawarkar College, Beed.
[3]Dept. of Chemistry, Balbhim College, Beed.
[4]Principal, ChhatrapatiShahu College, Lasur Station, Aurangabad.

Abstract:
Stability constant ofschiff base2-hydroxy-5-bromoacetophenone-N-(4-methoxyphenyl) iminewith diivalenttransition metalCu^{2+},Ni^{2+},Cd^{2+},Co^{2+},Mn^{2+} and Zn^{2+} using apHmetric titration technique in 50%(v/v) ethanol-water mixture atthree different temperatures 25°C, 35°C & 45°C at an ionic strength of 0.1M $NaClO_4$ were studied. The method of Calvin-Bjerrum as adopted by Irving-Rossotti has been employed to determine metal-ligand stability constant logKvalues. The trend in the formation constants is as: $Cu^{2+} > Cd^{2+} > Ni^{2+} > Zn^{2+} > Co^{2+} > Mn^{2+}$ The thermodynamic parameters such as, Gibb's free energy change (ΔG), entropy change (ΔS) and enthalpy change (ΔH) associated with the complexation reactions were calculated. The formations of metal complexes were found to be spontaneous, exothermic in nature and favorable at lower temperature.

Keywords:stability constant,transition metalions, schiff base, pH metry,thermodynamic parameteretc.

1. Introduction: Metal complexes of schiff bases have played a central role in the development of coordination chemistry. pHmetric titration is accepted as a powerful and simple electro analytical technique for determination of stability constants. It is also well known that some schiff basesexhibit increased activity when administered as metal complexes. Most of the d-block elements form complexes.Thereare different kinds of ligands used for complexation. For the present investigation, schiff base2-hydroxy-5-bromo acetophenone-N-(4-methoxyphenyl) imine,having molecular formulaC15H14O2NBr, was selected.

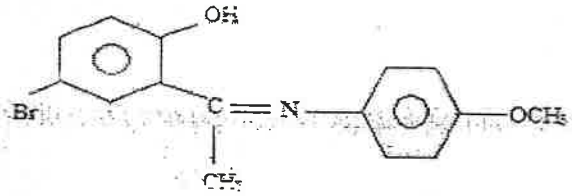


Figure: 2-hydroxy-5-bromo acetophenone-N-(4-methoxyphenyl) imine

In continuation of earlier work with complexation of schiff base [1-9] and after literature survey it was thought of interest to study the effect of temperature on thermodynamic parameters such as Gibb's free energy change ΔG, enthalpy change ΔH and entropy change ΔS of complexes of2-hydroxy-5-bromo acetophenone-N-(4-methoxyphenyl) iminewith transition metal ions Cu^{2+},Ni^{2+},Cd^{2+},Co^{2+},Mn^{2+} and Zn^{2+} pH metrically in 50% (v/v)ethanol-water mixture.

2.Experimental

2.1Materials and Solution

All transition metal salts,$HClO_4$,NaOH, $NaClO_4$,were of AR grade.The solutions were used in the pH metric titration were prepared in double distilled CO_2free water. TheNaOH solution was standardized against oxalic acid solution and standard alkali solution was again used for standardization of $HClO_4$. The transition metalsalt solutions were standardized using EDTA.All the measurements were made atthree different temperatures25°C, 35°Cand 45°C in 50% (v/v) ethanol-water mixture at constant ionic strength of 0.1M $NaClO_4$.The water thermostat model SL-131was used to maintain the temperature constant.The solutions were equilibrated in the thermostat for 10-15 minutes before titration. The pH measurement was made using a digital pH meter model Elico L1-120 in conjunction with a glass and reference calomel electrode (reading accuracy ±0.01 pH units). The instrument was calibrated at pH 4.00, 7.00 and 9.18 using the standard buffer solutions.

2.2pH metric procedures

For evaluating the protonation constant of the ligand and the formation constant of the complexes in 50% (v/v) ethanol-water mixture with different metal ions the following sets of solutions were prepared (total volume 50 ml) and titrated pH metrically against standard NaOH solution at three different temperature 25°C, 35°C and 45°C.

i. Free acid $HClO_4$
ii. Free acid $HClO_4$ + Ligand (schiff base)
iii. Free acid $HClO_4$ + Ligand (schiff base) + Metal solution

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalaya, Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Collaboration

In between

Department of Chemistry, Swa. Sawarkar Mahavidyalya, Beed

And

Department of Chemistry, Mrs. K. S. K. College, Beed

(For the academic year 2022-2023 to 2027-2028)

Collaborative works between academic institutes is a key of success in educational efforts. It plays a very vital role in research and educational fields. It encourages excellent research working attitude.

Collaboration between departments encourages and facilitates the development of research and educational programs leading to enhancement of research development and intellectual atmosphere on the campuses of the collaborating institutions.

So keeping in view the above facts we (Department of Chemistry, Swa. Sawarkar Mahavidyalya, Beed & Department of Chemistry, Mrs. K. S. K. College, Beed) hereby agree to collaborate for the following activities to achieve the above aims.

- Research & academic activities
- Curriculum designing
- Visiting faculty
- Laboratory facilities
- Extension, innovation & best practices

Head, Department of Chemistry
Mrs. K. S. K. College, Beed
Department of Chemistry
Mrs. K.S.K. College, Beed.

Head, Department of Chemistry,
Swa. Sawarkar Mahavidyalya,
HEAD
Department of Chemistry
Swa. Sawarkar Mahavidyalaya, Beed

Principal
PRINCIPAL
M.S.P.S.'s Mrs. K. S. K. College
Kaku Arts, Sci & Comm. College
BEED 431122

Principal
Swa. Sawarkar Mahavidyalya
Beed.

Date: 13/02/2023

Place: Beed

Swa. Sawarkar Mahavidyalaya 139 Beed

Established-1995

BhartiyaShikshanPrasarakSantha's, Ambajogai

Swa. Sawarkar Mahavidyalaya,Beed

(Art's, Science & Commerce)

NAAC– RE-ACCREDITED GRADE-B

Dr. P.D. Pohekar

M.A.,SET,M.Phil.,Ph.D.

•Website: https://www.sawarkarcollegebeed.edu.in

•E-mail: veersawarkarbeed@gmail.Com

Following activities were carried out during the assessment period 2018-2023 by **Department of Chemistry, Swa. Sawarkar Mahavidyalaya, Beed** with the collaboration partner **Department of Chemistry,Mrs. K. S. K. Mahavidyalaya, Beed**

Sr. No.	Collaborative Activity	Participants	Nature of Collaboration	Academic Year
1	Online Lecture Series	Dr. S. V. Gaikwad	Faculty Exchange	2022-23

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed

Head
Department of Chemistry
Mrs. K.S.K. College, Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Principal
Mrs.K.S.K. Art's Sci.Comm.
College,Beed-431122

Dept. of Chemistry

Collaborative Activity

2022-2023

(5)

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S. Ambajogai

Detail Report

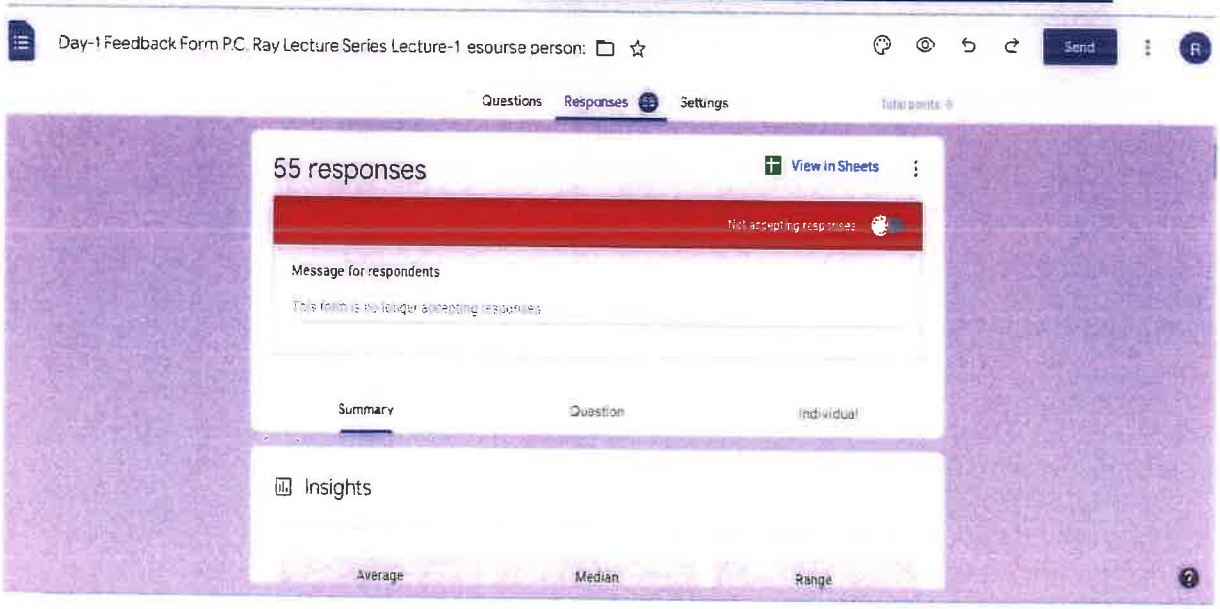
Title of Programme:		Prafulla Chandra Ray Online Lecture Series		
Name of Organizing Department/Unit:		Department of Chemistry, Swa. Sawarkar Mahavidyalaya, Beed in Collaboration with Analytical Chemistry Teachers and Researchers' Association (ACTRA) and Department of Chemistry, KSK College, Beed		
Name of the Coordinator(s)/Convener(s)/ Organizer(s) of the Programme:		**Organizing Secretary:** Dr. Shendge A.S. **Co-coordinator:** Jadhav R. L. **Convener:** Naiknaware V. V. **H.O.D. Chemistry:** Dr. Joshi H. U.		
Date(s) of the Programme:		22/12/2022, 23/12/2022,24/12/2022		
Venue:		Online Platform: Google Meet		
Target Group:		Student		
Numberof Participants:		**Male**	**Female**	**Total**
	Teaching	06	01	07
	Non-teaching	---	--	--
	Students	78 +57 +40		175
Name(s) and details of Resource Person(s),		Day 1: Dr. Arif Pathan, Day 2: Dr. Sandeep Sampal, Day 3: Dr. Sonaji Gaikwad		
Topic		Day 1: Basics of project writing Day 2: Careers in Chemistry Day 3: Stereochemistry		
Total Expenditure for the Programme:		Nil		
Source of Funding:		Nil		

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

News Published in News Paper Parshwabhumi Beed District:

Day-1 Feedback Form Screen Shot & its link: https://forms.gle/aLZGFnAWXKKnuBYY6



Head
Department Of Chemistry
Swa Sawarkar Mahavidyalay,Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Notice/Flyer/News Paper/Other Publicity Resources:

Day-1: Notice on Google Classroom:

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S. Ambajogai

Stream Classwork People Grades

Rajpal Jadhav
Dec 21, 2022 (Edited Dec 23, 2022)

Dear student,
Chemistry Department organizes a Prafulla Chandra Ray Lecture series from 22/12/2022 to 24/12/2022 at 11:00 am, by using the online mode platform Google Meet. So attend the lectures on time. For this every students must download the Google Meet app in your mobile.

Date: 22 December 2022
Time: 11 am

Mode: Online
Platform: Google Meet

Join meeting 5 minutes before by clicking on link below :)

Prafulla Chandra Ray Online Lecture Series
Thursday, Dec 22 – Saturday, Dec 24
Google Meet joining info
Video call link: https://meet.google.com/jky-oocm-awb
Or dial: +1 636-400-7150 PIN: 508 258 690#

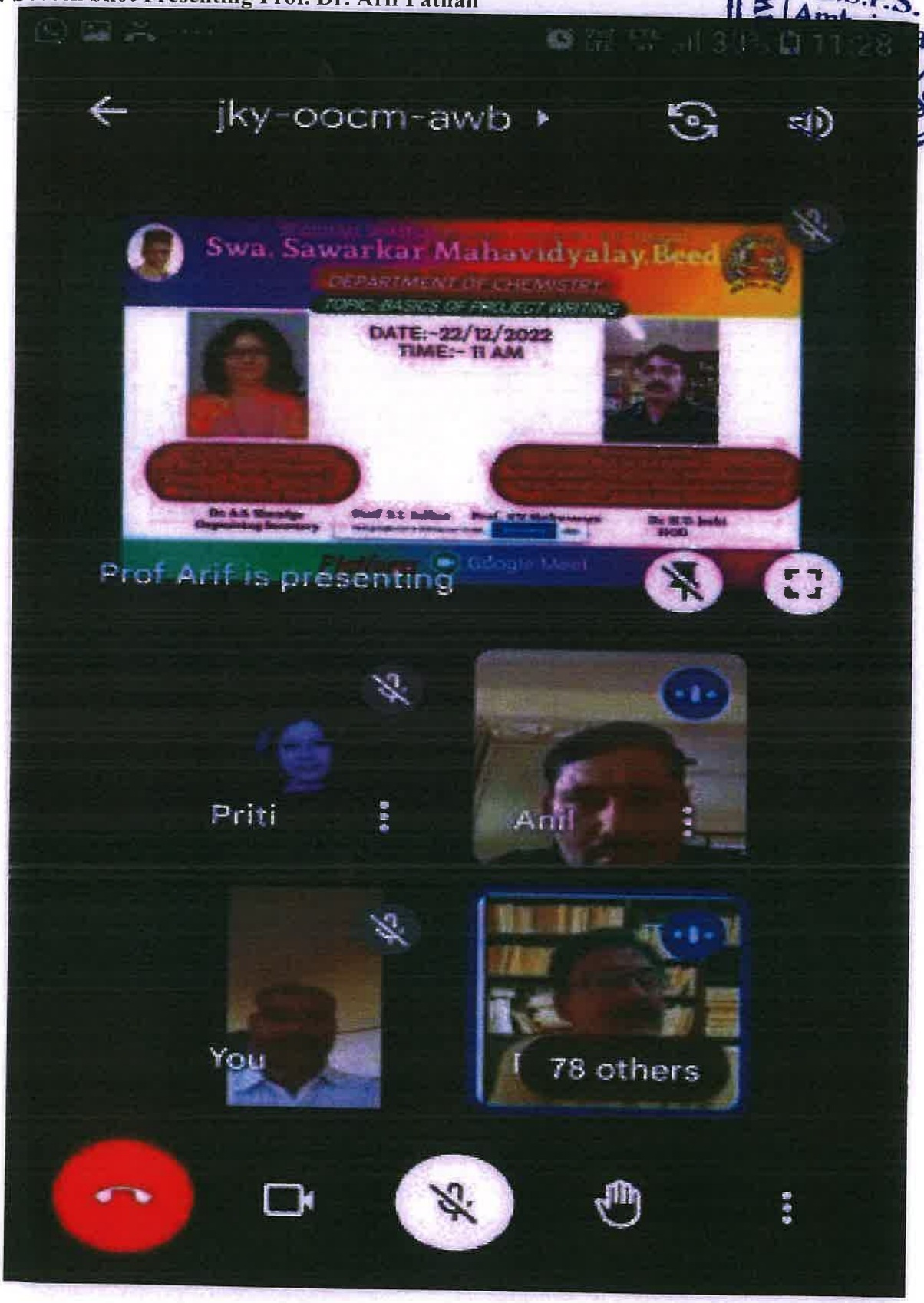
H.O.D.
Chemistry Department,
Swa. Sawarkar Mahavidyalaya, Beed

Head
Department Of Chemistry
Swa Sawarkar Mahavidyalay,Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Geotagged Photographs:

Day-1: Screen Shot Presenting Prof. Dr. Arif Pathan



Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Day-2: Noticed on Google Classroom:

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S. Ambajogai

Stream Classwork People Grades

Rajpal Jadhav
Dec 22, 2022 (Edited Dec 25, 2022)

Prafulla Chandra Ray Online Lecture Series
22 to 24 December 2022

Department of Chemistry of
Swa. Sawarkar Mahavidyalay Beed

Day 2
Date: 23 December 2022
Time: 11 am

Topic: Careers in Chemistry
Speaker: Dr. Sandip Sampal
Chairperson: Dr. L. G. Bahegavhankar, Vice Principal

Mode: Online
Platform: Google Meet

Join meeting 5 minutes before by clicking on link below

Prafulla Chandra Ray Online Lecture Series

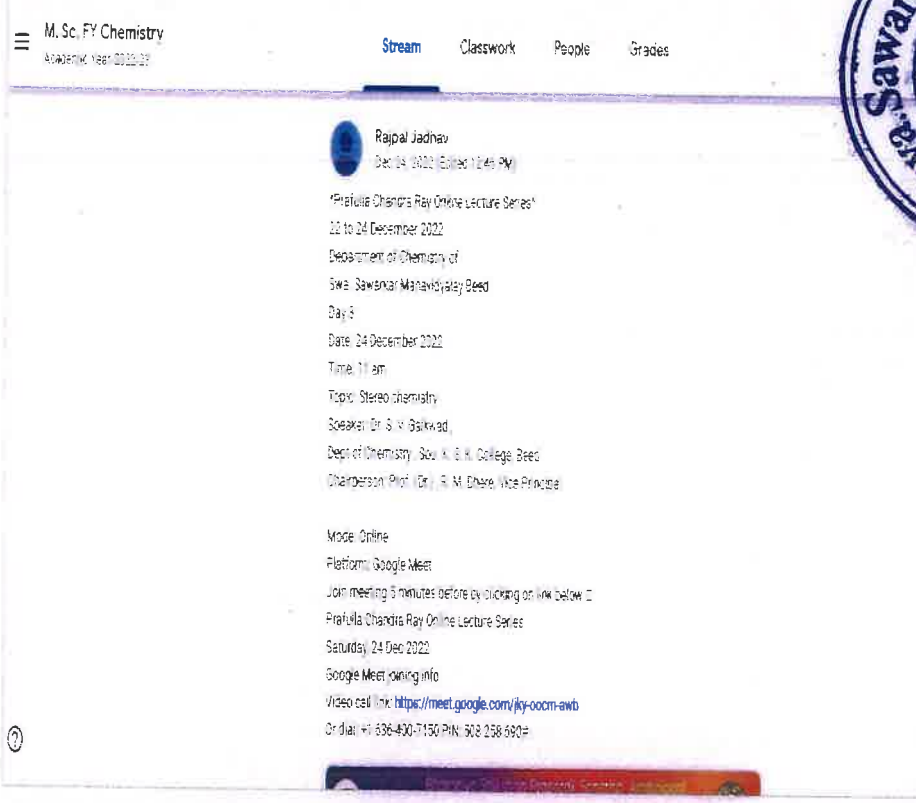
Friday, 23 Dec 2022

Google Meet joining info
Video call link: https://meet.google.com/jky-oocm-awb

Head
Department Of Chemistry
Swa Sawarkar Mahavidyalay,Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

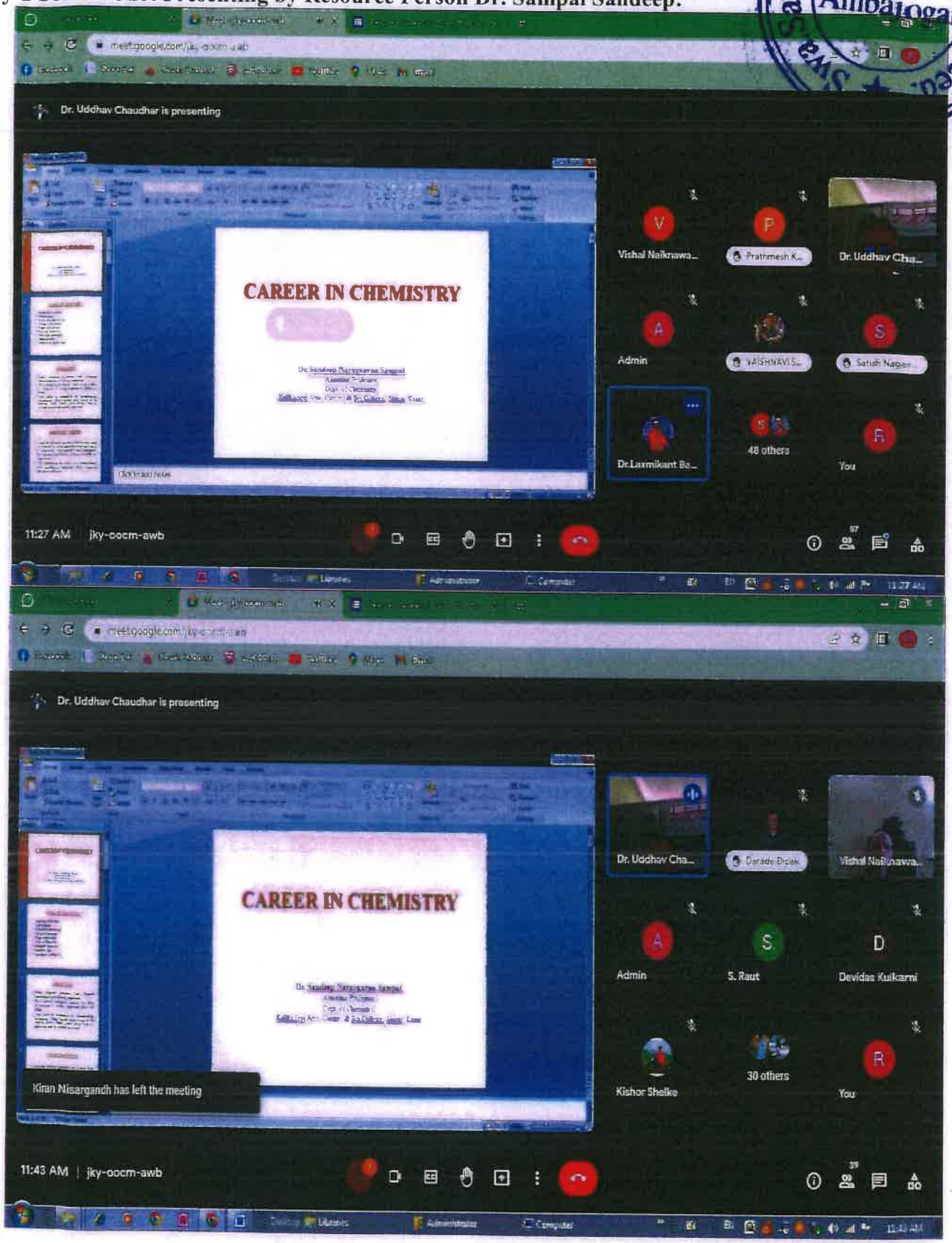
Day-3: Noticed on Google Classroom:



Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

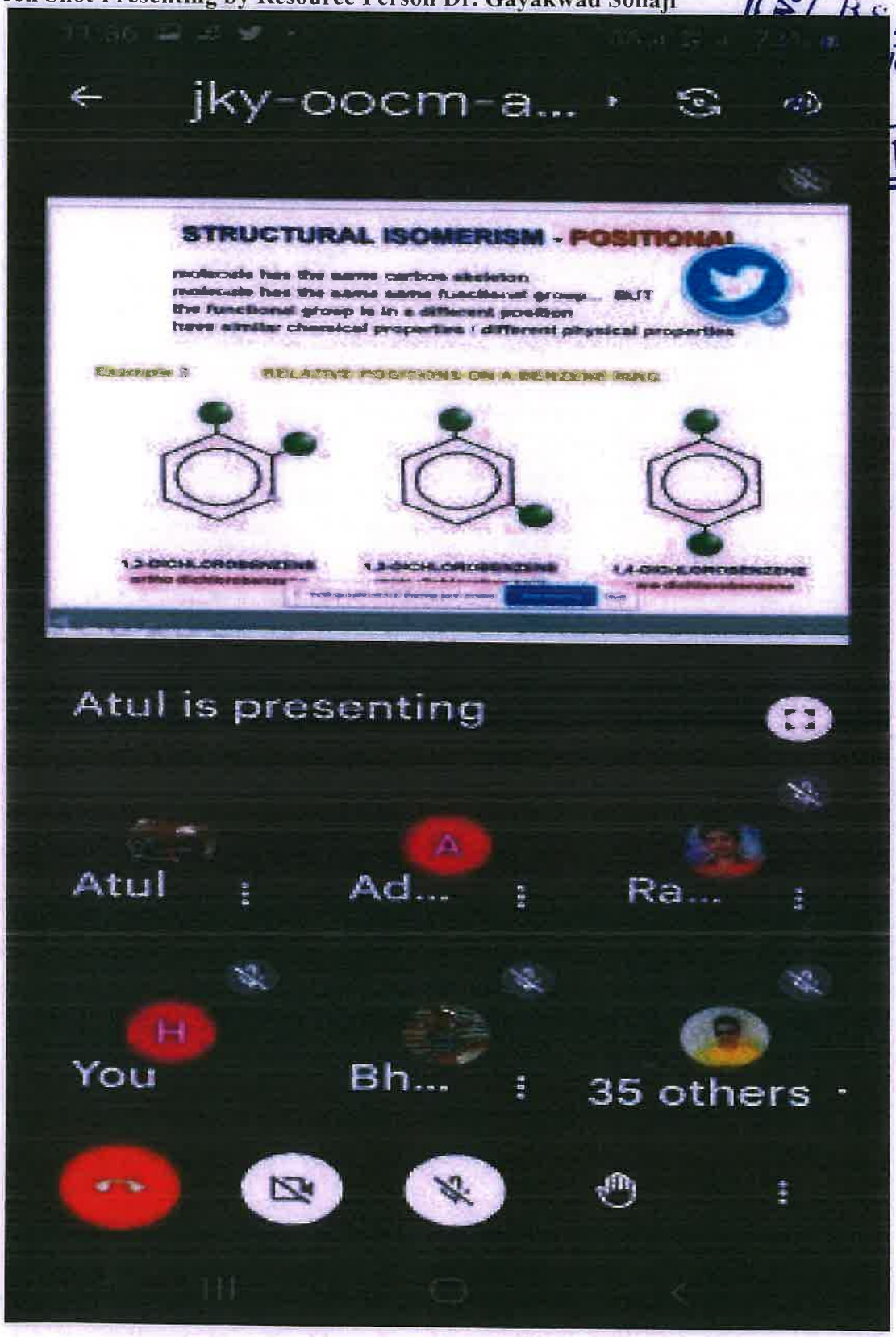
Day-2 Screen Shot Presenting by Resource Person Dr. Sampal Sandeep:



Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Day-3 Screen Shot Presenting by Resource Person Dr. Gayakwad Sonaji



Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Date 17/12/2022

To
The Principal,
Swa. Sawarkar Mahavidyalaya Beed.

Sub- Prafulla Chandra Ray Online Lecture Series in chemical science.

Respected Mam,

Department of chemistry is going to organize Prafulla Chandra Ray Online Lecture Series in chemical science during 22 to 24 December 2022.
Kindly allow to organize the same & oblige.

Thanking you.

Yours Faithfully,

Allowed
17/12/2022

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed

केल्याने होत आहे रे | आधी केलेचि पाहिजे ||
Bhartiya Shikshan Prasarak Sanstha, Ambajogai
Swa. Sawarkar Mahavidyalaya, Beed
Arts, Science & Commerce
NAAC Accreditation Grade 'B'
Established 1995
Principal Dr. P. D. Pohekar
M.A., M.Phil., Ph.D.
Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed- 431122, Maharashtra (INDIA)
Phone : 02442-226218 E-mail:- veersawarkarbeed@gmail.com Web site-www.sawarkar.co.in

Swa. Sawarkar Mahavidyalaya, B.S.P.S. Ambajogai

Out No. : SSMB/2022-2023/325-2 Date: 29.12.2022

To,

Dr.S. V. Gaikwad,
Assistant Professor,
Department of Chemistry,
Mrs. K. S. K. Mahavidyalaya, Beed

Respected Sir,

On behalf of this college and department of chemistry, let me express sincere thanks for sparing valuable time and for nice speech that you delivered on 24.12.2022 on the occasion of Prafulla Chandra Ray Online Lecture Series on the topic "Stereo-chemistry," organized by department of chemistry of this college. Your presentation was worth and benefitted to students.

Anticipating the same from you in future also.

Thanking you once again.

Principal
Swa.Sawarkar Mahavidyalaya
Beed

केल्याने होत आहे रे | आधी केलेचि पाहिजे ||
Bhartiya Shikshan Prasarak Sanstha, Ambajogai
Swa. Sawarkar Mahavidyalaya, Beed
Arts, Science & Commerce
NAAC Accreditation Grade 'B'
Established 1995
Principal Dr. P. D. Pohekar
M.A., M.Phil , Ph.D.
Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed- 431122, Maharashtra (INDIA)
Phone : 02442-226218 E-mail:- veersawarkarbeed@gmail.com Web site-www.sawarkar.co.in

Out No. : SSMB/2022-2023/325-1 Date: 29.12.2022

To,

Dr. Sandeep Sampal,
Assistant Professor,
Department of Chemistry,
Kalikadevi Mahavidyalaya, Shirur (ka), Dist. Beed

Respected Sir,

On behalf of this college and department of chemistry, let me express sincere thanks for sparing valuable time and for nice speech that you delivered on 23.12.2022 on the occasion of Prafulla Chandra Ray Online Lecture Series on the topic "Careers in Chemistry," organized by department of chemistry of this college. Your presentation was worth and benefitted to students.

Anticipating the same from you in future also.

Thanking you once again.

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Established 1995

कल्याने होत आहे रे | आधी केलेचि पाहिजे ||

Bhartiya Shikshan Prasarak Sanstha, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Arts, Science & Commerce

NAAC Accreditation Grade 'B'

Principal Dr. P. D. Pohekar

M.A., M.Phil., Ph.D.

Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed- 431122, Maharashtra (INDIA)

Phone : 02442-226218 E-mail:- veersawarkarbeed@gmail.com Web site-www.sawarkar.co.in

Out No. : SSMB/2022-2023/325 Date: 29.12.2022

To,

Prof. (Dr.) Arif Pathan,

Head,

Department of Chemistry,

Maulana Azad College, Aurangabad

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S. Ambajogai

Respected Sir,

On behalf of this college and department of chemistry, let me express sincere thanks for sparing valuable time and for nice speech that you delivered on 22.12.2022 on the occasion of Prafulla Chandra Ray Online Lecture Series on the topic "Basics of project writing," organized by department of chemistry of this college. Your presentation was worth and benefitted to students.

Anticipating the same from you in future also.

Thanking you once again.

Principal

Swa.Sawarkar Mahavidyalaya

Beed

Established-1995

BhartiyaShikshanPrasarakSantha's, Ambajogai

Swa. Sawarkar Mahavidyalaya,Beed

(Art's, Science & Commerce)

NAAC- RE-ACCREDITED GRADE-B

Dr. P.D. Pohekar

M.A.,SET,M.Phil.,Ph.D.

•Website: https://www.sawarkarcollegebeed.edu.in

•E-mail: veersawarkarbeed@gmail.Com

Following activities were carried out during the assessment period 2018-2023 by **Department of Chemistry, Swa. Sawarkar Mahavidyalaya, Beed**with the collaboration partner **Students For Holistic Development For Humanity (SHODH)**

Sr. No.	Collaborative Activity	Participants	Nature of Collaboration	Academic Year
1	7 Days Online Lecture Series	Rohan Jaiswal JRF Fellow, GITAM, Hyderabad, Sarang Mahajan, JRF Fellow, IISER, Pune, Ajit Asha Krishna, DST INSPIRE fellow, Aashish Anerao, Dr. BAMU, Aurangabad, Praveenkumar Litoria, Dr. H. G. Univ., Sagar, Kaveri Gore, Hi-Tech Inst. Of Tech, Aurangabad, Prof. Hemant Surywanshi, VPMK's College, Kinvhali	Faculty Exchange	2022-23

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

State In-charge
Students For Holistic Development
for Humanity (SHODH)

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

State Convener
Students For Holistic Development
for Humanity (SHODH)

Collaboration

In between

Department of Chemistry, Swa. Sawarkar Mahavidyalaya, Beed &

Students For Holistic Development for Humanity (SHODH)

(For the academic year 2022-2023 to 2027-2028)

Collaborative works between academic institutes and Educational Research Foundation is a key of success in educational efforts. It plays a very vital role in research and educational fields. It encourages excellent research working attitude.

Such collaborations encourage and facilitate the development of research and educational programmes leading to enhancement of research, development and intellectual atmosphere on the campuses of the collaborating institutions.

So keeping in view the above facts, we (State Convener, Students For Holistic Development for Humanity (SHODH) and Department of Chemistry, Swa. Sawarkar Mahavidyalaya, Beed) hereby agree to collaborate for the following activities to achieve the above aims.

- Research & academic activities
- Extension, innovation & best practices
- Expertise sharing
- Training Programs and Workshops
- Sharing of knowledge

State Convener,
Students For Holistic Development for
Humanity (SHODH)

Department of Chemistry,
Swa. Sawarkar Mahavidyalaya, Beed

W/S/C 2021-22 (2)

Swa. Sawarkar Mahavidyalaya Beed. B.S.P.S. Ambajogai

Detail Report

Title of Programme		7 Days Online Lecture Series on General Aptitude (Part A CSIR-NET)		
Name of Organizing Department/Unit		Department of Chemistry and Students For Holistic Development for Humanity (SHODH), Maharashtra		
Name of the Coordinator(s)/Convener(s)/ Organizer(s)of the Programme:		Prof. Hansaraj Joshi		
Date(s) of the Programme:		15 to 24 January 2022, 7 pm		
Venue		Online		
Target Group:		Student		
Number of Participants:		**Male**	**Female**	**Total**
	Teaching	00	00	00
	Non-teaching	00	00	00
	Students			250+ online
Name(s)and details of Resource Person(s),		1)Rohan Jaiswal, JRF fellow persuing PhD at GITAM, Hyderabad 2) Mr. Sarang Mahajan, Ph.D. fellow in Nuerobiology, IISER, Pune 3) Mr. Ajit Asha Krishna, (INSPIRE fellow of DST) 4) Aashish Anerao, pursuing PhD in stastics at Dr. BAMU, A'bad 5) Praveenkumar Litoria, Dr. H. G. Univ., Sagar 6) Kaveri Gore, Hi-Tech Insti. of Tech., A'bad 7) Prof. Hemant Suryvanshi, VPMK's College, Kinhvali		
Topic		1) Intro. To CSIR-NET (15.1.2022) 2) Numerical ability (16.1.2022) 3) Average and minority problem (17.1.2022); 4) Series formation (20.1.2022) 5) Logical reasoning (22.1.2022) 6) Analytical ability (23.1.2022) 7) Analytical ability (24.1.2022)		
Total Expenditure for the Programme:		Nil		
Source of Funding:		NA		

Brief Summary of Events/Sessions:

Online lecture series for students aspiring for CSIR-NET examination was organized by department of chemistry, Swa. Sawarkar Mahavidyalaya, Beed and SHODH (Students For Holistic Development for Humanity, Maharashtra) during 15-24 January 2022 especially for Part A General Aptitude of CSIR NET. A telegram link was circulated to registered aspirants for further communication. Day wise details about this program is mentioned in above table.

Conclusion, with Feedback on the Programme: This lecture series was found fruitful for CSIR NET aspiring students.

Notice/Flyer/News Paper/Other Publicity Resources: Flyers of the program are attached.

Geotagged Photographs: Screen shots of the online sessions are attached herewith.

List of participants with signature: Excel sheet is attached herewith.

State In-charge
Students For Holistic Development for Humanity (SHODH)

Principal
Swa. Sawarkar Mahavidyalaya, Beed.

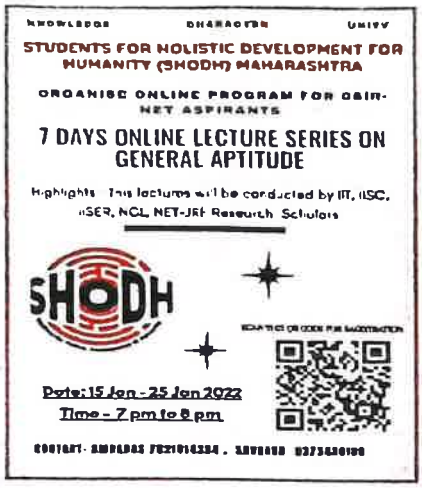
State Convener
Students For Holistic Development for Humanity (SHODH)

Head
Department of Chemistry
Swa. Sawarkar Mahavidyalay, Beed

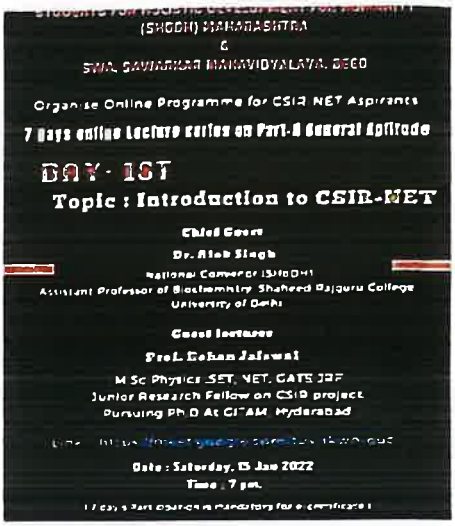
Swa. Sawarkar Mahavidyalaya Beed
B.S.P.S. Ambajogai

Seven Days Online Lecture Series General Aptitude (Part – A: CSIR NET)

Flyer for registration

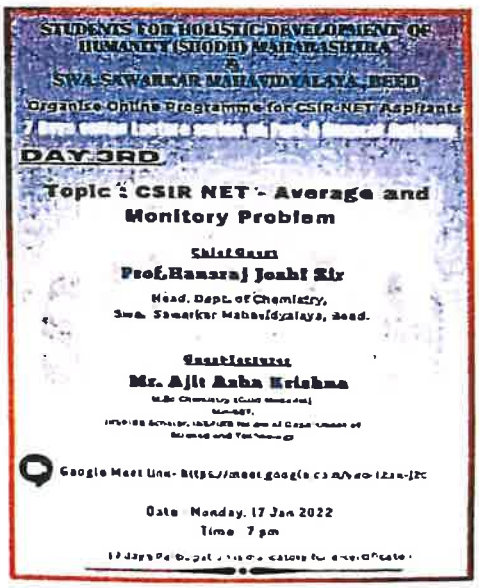


Flyer for Day 1



Day 2 Flyer

Day 3 Flyer



Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

State In-charge
Students For Holistic Development
for Humanity (SHODH)

State Convener
Students For Holistic Development
for Humanity (SHODH)

Day 4 Flyer

Day 5 Flyer

Day 6 Flyer

Day7 Flyer

Swa. Sawarkar Mahavidyalaya Beed
B.S.P.S. Ambajogai

State In-charge
udents For Holistic Development
for Humanity (SHODH)

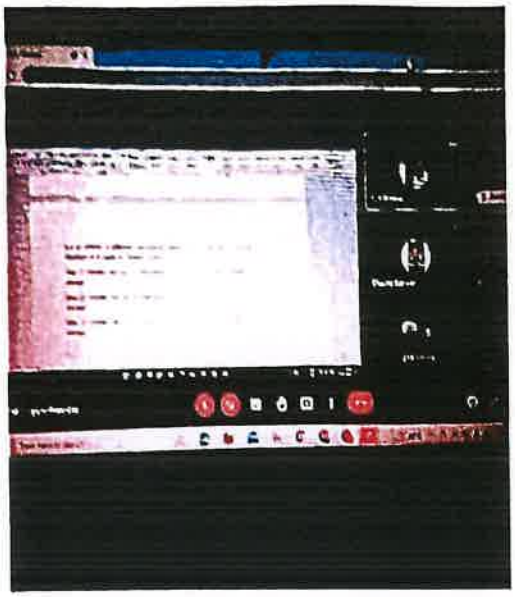
Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed

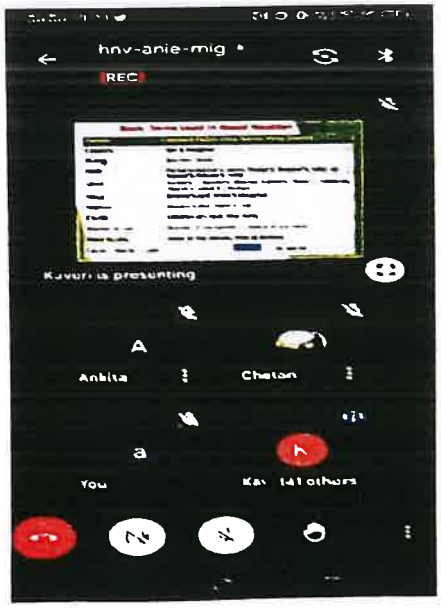
State Convener
Students For Holistic Development
for Humanity (SHODH)

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Swa. Sawarkar Mahavidyalaya Beed. B.S.P.S. Ambajogai

Screen shots of program





State In-charge
dents For Holistic Development
for Humanity (SHODH)

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

State Convener
Students For Holistic Development
for Humanity (SHODH)

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Swa. Sawarkar Mahavidyalaya Beed B.S.P.S. Ambajogai

List of participants

https://drive.google.com/file/d/1XJ1U5_kt_0WdJBqck0ntPm-UWwMrgwSu/view?usp=sharing_lin

The list consists of 17 pages, first page of which is pasted herewith.

Student Name	University	Contact-Whatsapp number
Divya Hemant Lad	D Y Patil Education Society Kolhapur	9400404607
Rajrang Khushbu Ratilal	KBC North Maharashtra University Jalgaon	9850188217
Salunkhe Priyanka Kashinath	Punyshlok Ahilyadevi holkar solapur,solpur universi	9322814496
Hatkare Shilpa nagnath	Ashilyadevi holker University Solapur	7620873578
Pratiksha Sukadev Jadhav	Ahilyadevi holkar solapur university	9146382958
Umesh Mahonar Pun	Amaravati	9822000963
Nitin Uddhao Godghase	Amaravati	7083112845
Prajesh	Amity university	8368424801
Kunal	Amravati	9579688007
Akash Gopal Rajurkar	Amravati	7498233395
Nandkishor krishnadas Tang	Amravati	9156926568
BharathKumar	Anna university	8754338493
Kale Deepak Sanjay	Aurangabad	7057499636
Sandip jijabapu londe	Aurangabad	8766803155
Rushikesh Suryawanshi	B.A.M.U. aurangabad	8888224268
Rewati Rajkumar mane	Babasaheb Ambedkar technological Unversity	7498610676
Shilpa Bhagwan Jadhav	Babasaheb Ambedkar University	7972666211
Rohit Gaikwad	Bamu	9011721103
Samarth Rajesh Kuldharme	Bamu	8484881842
Snehajit	bamu	9657995262
GAYATRI GUNCE	Bamu	8975694173
Shirsat Yogita Pandit	BAMU	9529636769
Sunil Phad	Bamu	8600764607
Vaidya Sunil Parmeshwar	BAMU	9405934960
Abhishek Ravindra Jamdar	BAMU	9403656110
GOVARDHAN D MAHALE	BAMU	9545194794
Gonte Rameshwar Shivaji	Bamu	7028727740
Pramod sonawane	Bamu	9665304413
Shalini Ram Kalbar	BAMU Aurangabad	9049193238
Ashish Shrikantrao Gangam	BAMU Aurangabad	9373699974
Dr Sheetal Ilande	Bamu Aurangabad	9511235841
Rupali Raju save	BAMU aurangabad	9146671986
Dnyaneshwar mane	BAMU Aurangabad	9420782812
TEJAS BHARAT KAPADNIS	BAMU UNIVERSITY	8668310606
Rewati Ravindra Deshmukh	Bamu university	7387583000
Ashwini gokul kahate	Bamu university	9356056017
Baliram Date	Bamu University Aurangabad	7387693516
Santosh balaji somvanshi	BAMU university aurangabad	9309567172
Ashish vasant marshikolhe	BAMU University Aurangabad	8698127632
Ashish vasant marshikolhe	BAMU University Aurangabad	8698127632
Suruk Rukhmin Babasaheb	BAMU university	7083093182
Nikhil Hanumant mane	Bamu University	8999727630
Nikhil Hanumant Mane	Bamu University	8999727630
Tonge Vishnuau Dattatray	Bamu University Aurangabad	7666487816
Sachin Chandrashekhar sa	Bamua	9390678020
Diksha	Banaras Hindu University	9818109771
Deshmukh Vinay Chandrak	Batu	7774070828
Dnyaneshwar Rajendra she	Batu	8788807194
Sawant rajesh pandurang	Batu	7767900437
Gund Rushikesh Umesh	BATU	8308918121
Kharat Dw	Cb	7385134175
Ritu Sagar	Central University of Haryana	9053421042

State In-charge
Students For Holistic Development
for Humanity (SHODH)

Head
Department Of Chemistry
Swa.Sawarkar Mahavidyalay,Beed.

State Convener
Students For Holistic Development
for Humanity (SHODH)

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

(9) ~~20~~

Janshikshan Sansthan, Beed.

MEMORANDUM OF UNDERSTANDING

This memorandum of Understanding (MOU) signed on 19/10/2022 between Bhartiya Shikshan Prasarak Mandal's Swa. Savarkar Mahavidyalaya Beed (Partner I), and Jan Shikshan sansthan Beed, (Skill Development and Entrepreneurship Govt. Of India) partner II, to conduct various programs activities o providing vocational training to the under privileged and student, creating awareness amongst student regarding skill based activities campaign, conducting series of guest lectures on women employment through skill based entrepreneurship development program at Swa. Savarkar Mahavidyalaya Beed on mutually agreed terms and conditions as mentioned below.

1)Co-ordination and contact information.

Partner I has appointed Dr.Swati Kulkarni for co-ordination and contact for any operational activities.

Partner II has appointed I) Shri Gangadhar Deshmukh (Director ,Jan Shikshan Sansthan Beed).

2)Monitoring Committee

I)Dr. Priti Pohekar ,Principal , Swa Savarkar Mahavidyalaya Beed.

II) Dr. Vivek Palvankar,Karyvah, Sthanik Samiti.

III)Dr. Upendra Kulkarni,Chairman, Jan Shikshan Sansthan Beed.

IV) Sou Manisha Kulkarni –Rasal (Vice Chairman, Jan Shikshan Sansthan, Beed)

3)Terms and condition

I)Swa. Savarkar will identify batch of students for desirous of attending the skill courses and will make all the arrangements for smooth conduct of skill courses. Swa Savarkar Mahavidyalaya will partner in conducting programs/seminars/discussions on mutually agreed themes.

2)Partner 2 will make the trainers available for the skill courses. Partner 2 will actively support the programs/ seminars/discussion which will help partner 1 in improving the quality of education and in NI implementation.

Period of Validity

Duration of the MOU shall be of ~~5~~ years.

If any one of parties asks to cancel MOU, it can cancelled mutually by giving one month notice period

For the Partner I

Dr. Priti Pohekar

Hon. Shri Nikhilji Mundale

Vice Chairman, DRI

For the Partner II

Dr. Upendra Kulkarni

Chairman, Jan Shikshan Sansthan, Beed

|| केल्याने होत आहे रे | आधि केलेचि पाहिजे ||

भारतीय शिक्षण प्रसारक संस्था अंबाजोगाई

स्वा.सावरकर महाविद्यालय आणि जन शिक्षण संस्थान,बीड यांच्या संयुक्त विद्यमाने

असिस्टंट ड्रेस मेकर (टेलरिंग)

व

प्लंबिंग, रेनवॉटर हार्वेष्टींग तथा जलपुनर्रभरण

कौशल्य विकास प्रशिक्षण अहवाल-2022-23

: प्रेरणा :

प्राचार्या डॉ.प्रीती पोहेकर

उपप्राचार्य डॉ.लक्ष्मीकांत बाहेगव्हाणकर

उपप्राचार्य डॉ.राजेश ढेरे

डॉ.मेधा गोसावी
MOU प्रमुख

डॉ.संगिता ससाणे
सहप्रमुख

महिला उद्योजक मेळावा

कौशल्य विकास प्रशिक्षण अभ्यासक्रम अहवाल-२०२२-२०२३

महिलांनी आत्मनिर्भर झाले पाहिजे, स्वयंरोजगार निर्माण करुन आपल्या पायावर उभे राहिले पाहिजे. अर्थात महिला सबलीकरणाच्या दृष्टीकोणातून समाजाभिमूख असलेल्या आपल्या भारतीय शिक्षण प्रसारक संस्थेने स्वा.सावरकर महाविद्यालय व जनशिक्षण संस्थान बीड यांच्याशी संयुक्त करार करुन कौशल्य विकास प्रशिक्षणाचे स्वतंत्र दालन सुरु केले आहे आणि महिला स्वयंरोजगारासाठी एक कृतीशील उपक्रम सुरु केला. यासाठी महाविद्यालयात प्राचार्या डॉ.प्रीती पोहेकर मॅडमनी महिलांच्या वेळोवेळी बैठका घेतल्या. पैकी एका बैठकीत महिलांचे दोनदोनचे पाच गट केले. प्रत्येक गटाने सर्व्हे करुन किमान २५ महिलांशी संपर्क केला. एकूण दिडशे ते दोनशे महिला पर्यंत आम्ही पोहोचलो. त्या सर्व महिलांचा २२ नोव्हेंबरला दोन सत्रांत कौशल्य पूर्व प्रशिक्षण मेळावा घेतला. पहिल्या सत्रात जनशिक्षण संस्थानचे संचालक मा.श्री.देशमुख यांनी असिस्टंट ड्रेस मेकर (टेलरिंग) संपूर्ण अभ्यासवर्गाची माहिती दिली, महत्व प्रतिपादन केले. तर दुसऱ्या सत्रात सौ.मानुरकर व सौ.स्वाती जैन यांनी शिलाईची प्रात्यक्षिके दाखविली आणि या मेळाव्यानंतर आठच दिवसाच्या आत प्रवेश पूर्ण झाले. या मेळाव्याला महिलांची उपस्थिती लक्षणीय होती.

: कौशल्य प्रशिक्षण पूर्व मेळावा क्षणचित्रे :

Director
Jan Shikshan Sansthan,Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

कौशल्य प्रशिक्षणपूर्व मेळाव्यात श्री.गंगाधर देशमुख, प्राचार्या डॉ.प्रीती पोहेकर,डॉ.बाहेगव्हाणकर, MOU प्रमुख डॉ.मेधा गोसावी

मेळाव्याची नोंदणी करताना महाविद्यालयीन विद्यार्थींनी

मेळाव्याची नोंदणी करुन घेताना डॉ.कास्तीकर आणि परीसरातील गरजू महिला

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

महिला उद्योजक मेळावा

उपस्थिती

Collaborative Activity

कौशल्य वि[illegible]

उपस्थिती

अनु. क्र.	संपूर्ण नाव	भ्रमणध्वनी	संवर्ग SC/ST/विधवा/प[illegible] दिव्यांग
1	गरुड वैभवी उमाकांत	9421350860	
2	रेणुका अतुल जोशी	7020673944	–
3)	जया भिमराव खोड	9322804405	–
4)	नंदिनी बाळु बुरे	8881251811	–
5)	पुजा राजेंद्र रुद्रावणे	9561902716	–
6)	लक्ष्मी रमेश कदम	9338359999	–
7)	निकिता मारोती पवार	9420610755	–
8)	वैष्णवी दुर्गादास काळे	7057584209	–
9)	आजबे अश्विनी भारत	9405151694	–
10)	आरती तुळशीदास कानगांवकर	8767042526	–
11)	वैष्णवी प्रकाश मानुरकर	9420246611	–
12)	गौरी गजानन शेटे	7721070752	
13)	Waghmare Vaishnavi yuvraj	9922057044	
14)	ढवळे राजश्री मधुकर	9922654715	–
15)	स्वामी अपर्णा शांतलिंग	9356095049	SC
16)	राधिका विनायकराव वझे	7843088621	–
17)	Subhashini Vinayakrao Vaze	9359789801	–
18)	पुजा ज्ञानेश्वर विभुते	7040619323	–
19)	रश्मी अमर पवार	9359963701	–
20)	वैभवी मधुकर धुरंधरे	9172152833	SC
21)	वैष्णवी मधुकर धुरंधरे	9172152833	SC
22)	kolekar mukta khandu	7498532248	–
23)	रेश्मा गणपत दुधभाते	8080589078	–
24	ज्योतिका हेमंत टाक	7219370707	–
25)	[illegible] काळे ([illegible])	[illegible]	
26)	स्नेहा मुळे (देव [illegible])	818000562[illegible]	
27)	[illegible] क्षिरसागर	902823[illegible]	दिव्यांग
28)	[illegible] अशोक रुद्रे	95185[illegible]	
29)	[illegible]	7840925825	–

Director
Jan Shikshan Sansthan, Beed.

B.S.P.S Ambajogai
Swa. Sawarkar Mahavidyalaya, Beed.

Principal
Swa. Sawarkar Mahavidyalaya, Beed.

व उद्योजिका मेळावा नोंदणी·

दि. २१·११·२०२३
सोमवार·

पत्ता	वय	पार्लर	[illegible]	ड्रेस मेकिंग		स्वाक्षरी
		भविष्यात कोण कोणते कोर्स करायला आवडेल?				
आयोध्यानगर, बीड	18	✓		✓		Dyaneud
पिंपळाजी दुर्गानगरी त्रिमुर्ती आपार्टमेंट Flat No. 1.	18	✓		✓		Renuy
पिंपळाजी आयकॉन	18	✓		✓		Gyaujay
शुक्रवार पेठ बीड	18			✓		Nandini
बीड M.I.D.C	18			✓		Pooja
M.I.D.C Beed	19	✓		✓		Laxmi
M.I.D.C Beed.	20	✓		✓		Nikita.
फुलाई नगर बीड	19	✓		✓		Vaishnavi
खापर पांगरी ता जी बीड	18	✓		*✓		Ashvini
सहयोग नगर, बीड	22	✓		✓		Adesi
फुलाई नगर बीड	22	✓		✓		Vaishnavi
धोंडीपुरा तिळकारोड बीड						Yavshi
नाळवंडी नाका बीड	19					Vaishnavi
सौंदाना	19	✓		*✓		राजश्री
विश्वशांती हौसिंग पेठ बीड.	21			✓		Apal.
सुभाषरोड, माळीवेस, बीड	20	✓	✓			Radhika
–॥–	19		✓	✓		Shreya
एकता नगर त्रिरूमला इस्टेट	26	-	-	✓		Pooja
एकता नगर शाहू	24	✓	-	-		Rani
फुलाई रोड MIDC बीड	20	✓	-	*✓		Vaibhavi
फुलाई रोड MIDC बीड	21	✓	-	*✓		Vaishnavi
माळवेस रोड बीड	19					Ankita
सावरकर महाविद्यालय जवळ	30			*✓		रे शमा
फुलाई नगर बीड	27	✓		*✓		J. H. Take
				*✓		
				*✓		
बँक कॉलनी	3[illegible]			✓		Komal
फुलाई नगर	2[illegible]			*✓		Sarita
फुलाई नगर, बीड	2[illegible]			*✓		B Joshi

Director
Jan Shikshan Sansthan, Beed.

B.S.P.S Ambajogai
Swa. Sawarkar Mahavidyalaya, Beed.

Principal
Swa. Sawarkar Mahavidyalaya,
Beed.

अनु.क्र.	संपूर्ण नाव	भ्रमणध्वनी	संपर्क विधवा/प दिव्यांग
34)	सारीका माधवराव कूरुकूट	9631591008	-
35)	स्वामिनी वैभव देशमुख	8766743562	-
36)	प्रांजक्ता सुदास कुलकर्णी	9325123217	-
37)	ऐश्वर्या प्रशांत रनपरे	8459755366	-
38)	अंजली गणेश पुराणिक	9689498772	-
39)	अमृता गजानन जोशी	9689498772	-
40)	आश्विनी राम यादव	6395261840	-
41)	मनिषा कालिदास पुराणीक	8788003566	-
42	शेख शबाना शेख असद	7875843452	-
43)	शितल अमोल साबळे	8459052295	-
44)	शितल उध्दवराव खोड	9689328796	-
45)	आरती ओनप शर्मा	7499071379	-
(46)	ज्ञानेश्वरी भीमराव खोड	7822823909	-
47)	स्वाती गणेश जगताप	9011123310	-

Director
Jan Shikshan Sansthan, Beed.

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S Ambajogai

Principal
Swa. Sawarkar Mahavidyalaya,
Beed.

भविष्यात कोणते कोर्स करू इच्छिता (✓)

पत्ता	वय	पार्लर	फॅशन डिझायनिंग	ड्रेस मेकिंग	स्वाक्षरी
सावरकर नगर, बीड	28	✓			Sapna
सावरकर नगर, बीड	22	✓	✓	☆ ✓	Swamini
सावरकर नगर, बीड	25	✓	✓	☆ ✓	Prajakta.K.
सावरकर नगर, बीड	27	✓	✓	☆ ✓	Aishwarya
सावरकर नगर, बीड	28	✓	✓	☆ ✓	Anjali
सावरकर नगर, बीड	28	✓	✓	☆ ✓	Joshi
सावरकर नगर, बीड	28	✓	✓	☆ ✓	[illegible]
सावरकर नगर, बीड		✓		☆ ✓	Manisha
नगर रोड बीड	42	✓	✓	☆ ✓	Sh
फुलाई नगर. बीड	32	✓	✓	☆	[illegible]
सहयोग नगर बीड	36	✓	✓	✓	Shital
मुक्ता नगर बीड	40	✓		☆ ✓	Aghaomel
माऊली नगर	18	पोल		✓	Janhavi
सहयोग नगर बीड	29	✓	✓	✓	[illegible]

Director
Jan Shikshan Sansthan, Beed.

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Assistant Dress Maker Course

2022-23

(7)

॥ केल्याने होत आहे रे । आधि केलेचि पाहिजे ॥

भारतीय शिक्षण प्रसारक संस्था अंबाजोगाई

स्वा.सावरकर महाविद्यालय आणि जन शिक्षण संस्थान,बीड यांच्या संयुक्त विद्यमाने

असिस्टंट ड्रेस मेकर (टेलरिंग)

व

प्लंबिंग, रेनवॉटर हार्वेष्टींग तथा जलपुनर्रभरण

कौशल्य विकास प्रशिक्षण अहवाल-2022-23

: प्रेरणा :

प्राचार्या डॉ.प्रीती पोहेकर

उपप्राचार्य डॉ.लक्ष्मीकांत बाहेगव्हाणकर

उपप्राचार्य डॉ.राजेश ढेरे

डॉ.मेधा गोसावी

MOU प्रमुख

डॉ.संगिता ससाणे

सहप्रमुख

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed.
B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Collaborative Activity
with
Janshikshan Sansthan, Beed

असिस्टंट ड्रेस मेकर कौशल्य प्रशिक्षण अभ्यासक्रम :

स्वा.सावरकर महाविद्यालय बीड आणि जनशिक्षण संस्थान बीड यांच्या संयुक्त विद्यमाने महाविद्यालयात दि.०८/१२/२०२२ पासून असिस्टंट ड्रेस मेकर (टेलरिंग) हा कौशल्य प्रशिक्षण अभ्यास वर्ग सुरु करण्यात आला. या अभ्यासवर्गाची मर्यादित प्रवेश संख्या फक्त २० आहे आणि शुल्क नाममात्र ४०० असून SC/ST/दिव्यांग/विधवा/परित्यक्ता यांना हा अभ्यासवग निःशुल्क आहे. मध्ये ६५% प्रॅक्टिकल आणि २५% थिअरी अभ्यासक्रम आहे. हा अभ्यासवर्ग पूर्ण केल्यानंतर प्रशिक्षणार्थींना प्रमाणपत्र आणि शासनाकडून कर्ज उपलब्ध करुन देण्यास मदत होणार आहे. दि.८/१२/२०२२ रोजी संपन्न झालेल्या उद्घाटन समारंभाला अध्यक्ष म्हणून भारतीय शिक्षण प्रसारक संस्थेचे कार्यवाह मा.डॉ.हेमंतजी वैद्य तर उद्घाटक म्हणून मा.श्री.उपेंद्रजी कुलकर्णी उपस्थित होते, तर संस्थेचे सन्माननीय पदाधिकारी मा.प्रा.चंद्रकांतजी मुळे (अध्यक्ष महाविद्यालय विकास समिती तथा प्रशासकीय अधिकारी) मा.श्री.प्रविण सरदेशमुख (केंद्रीय कार्यकारिणी सदस्य) मा.ॲड.रोहितजी सर्वज्ञ (केंद्रीय कार्यकारिणी सदस्य), मा.श्री.गजाननराव जगताप (अध्यक्ष, स्था.व्य.सं.) मा.श्री.विवेकजी पालवनकर (कार्यवाह स्था.व्य.स.) मा.श्री.उमेशजी जगताप (शिक्षक प्रतिनिधी) मा.श्री.प्रमोदजी कुलकर्णी (अध्यक्ष माध्यमिक व उच्च माध्यमिक विद्यालय समिती), मा.श्री.एस.एन.कुलकर्णी (अध्यक्ष प्रा.शा.स.) मा.श्री.गंगाधरजी देशमुख (अध्यक्ष ज.शि.स.बीड) महाविद्यालयाच्या प्राचार्या डॉ.प्रीती पोहेकर, उपप्राचार्य डॉ.बाहेगव्हाणकर, उपप्राचार्य डॉ.राजेश ढेरे, सर्व प्राध्यापक वर्ग तसेच प्रशिक्षणार्थी आणि विद्यार्थी या उद्घाटन सोहळयास उपस्थित होते. या कार्यक्रमाचे प्रास्ताविक MOU प्रमुख डॉ.मेधा गोसावी यांनी तर स्वागत संदेश प्राचार्या प्रीती पोहेकर यांनी दिला. सूत्रसंचलन डॉ.सुनिता कुरुडे, आभार डॉ.रुपाली कुलकर्णी यांनी मांडले. पसायदानाने या सोहळयांची सांगता झाली.

Director
Jan Shikshan Sansthan, Beed.

Swa. Sawarkar Mahavidyalaya, Beed
B.S.P.S
Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

: असिस्टंट ड्रेस मेकर (टेलरिंग) कौशल्य प्रशिक्षण उद्घाटन क्षणचित्रे :

उद्घाटन समारंभात बोलताना कार्यवाह मा.डॉ.हेमंत वैद्य व व्यासपीठावर मा.जगताप काका, प्रा.चंद्रकांत मुळे, मा.उपेंद्र कुलकर्णी, मा.प्रविण सरदेशमुख, मा.पालवणकर व प्राचार्या डॉ.पोहेकर

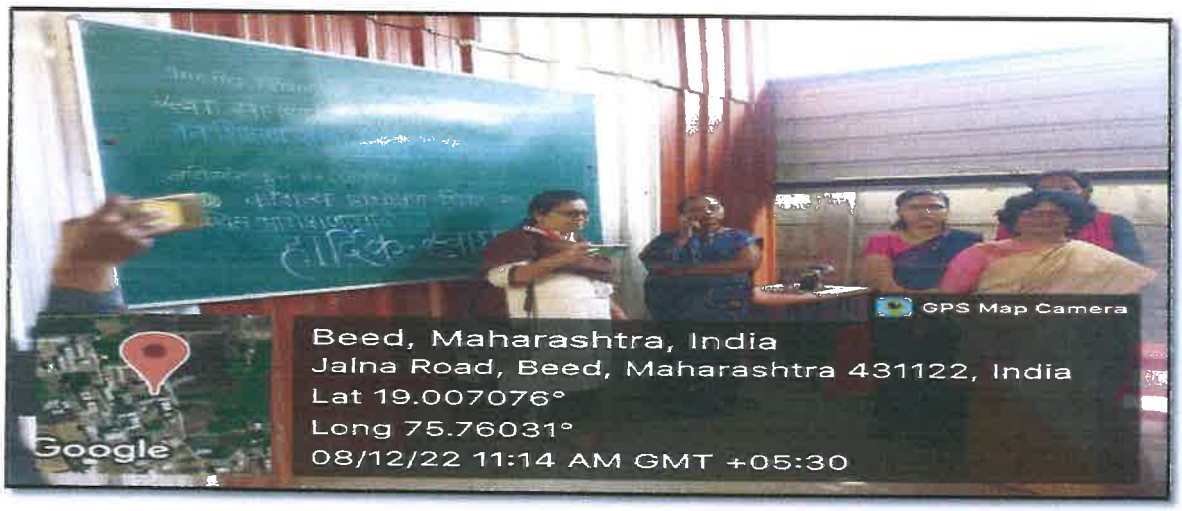
उद्घाटन समारंभात दिप प्रज्वलन करताना कार्यवाह मा.डॉ.हेमंत वैद्य,मा.जगताप काका, प्रा.चंद्रकांत मुळे, मा.उपेंद्र कुलकर्णी, मा.प्रविण सरदेशमुख, मा.पालवणकर व प्राचार्या डॉ.पोहेकर, डॉ.मेधा गोसावी.

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

टेलरिंग प्रशिक्षण वर्गात प्रशिक्षकांसह उपस्थित संस्थेचे मान्यवर



प्रशिक्षणाची माहिती देताना सौ.मानूरकर व प्राचार्या डॉ.पोहेकर

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

टेलरिंग प्रदर्शनी पाहताना संस्थेचे सर्व मान्यवर व महाविद्यालयाच्या प्राचार्या डॉ.पोहेकर

कौशल्य प्रशिक्षण वर्गाची पाहणी करतांना संस्थेचे सर्व मान्यवर व महाविद्यालयाच्या प्राचार्या डॉ.पोहेकर

Director
Jan Shikshan Sansthan, Beed.

Swa. Sawarkar Mahavidyalaya, Beed
B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

संपूर्ण तीन महिन्याच्या या प्रशिक्षण वर्गामध्ये महाविद्यालयाच्या परिसरातील अतिशय गरजू प्रशिक्षणार्थी महिलांचा प्रवेश आम्ही जाणीवपूर्वक या कोर्समध्ये निश्चित केला आहे. श्रीमती सौ.शुभांगी झेंड या नियमितपणे हे प्रशिक्षण महाविद्यालयात देत आहेत.

दि.२९ मार्च २०२३ रोजी असिस्टट ड्रेस मेकर या कोर्समधील सहभागी सर्व प्रशिक्षणार्थीची १०० मार्काची लेखी, तोंडी व प्रात्यक्षिक परिक्षा घेण्यात आली. त्यावेळी बाह्य परिक्षक म्हणून सौ.सुरेखा पालकर, महाविद्यालयाच्या प्राचार्या डॉ.पोहेकर, जनशिक्षण संस्थान,बीडचे संचालक श्री.गंगाधर देशमुख, सौ.शुभांगी जैन, सौ.स्वाती जैन, सौ.सीमा मानुरकर व समन्वयक डॉ.मेधा गोसावी उपस्थित होत्या.

असिस्टंट ड्रेस मेकर (टेलरिंग) कौशल्य प्रशिक्षण परिक्षा क्षणचित्रे :

प्रशिक्षणार्थीनी शिवलेल्या ड्रेसची पाहणी करतानी सौ.पालकर,सौ.जैन व डॉ.सौ.गोसावी

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

टेलरिंग प्रशिक्षण परीक्षा केंद्रावर उपस्थित असलेले प्रशिक्षक व प्रशिक्षणार्थी

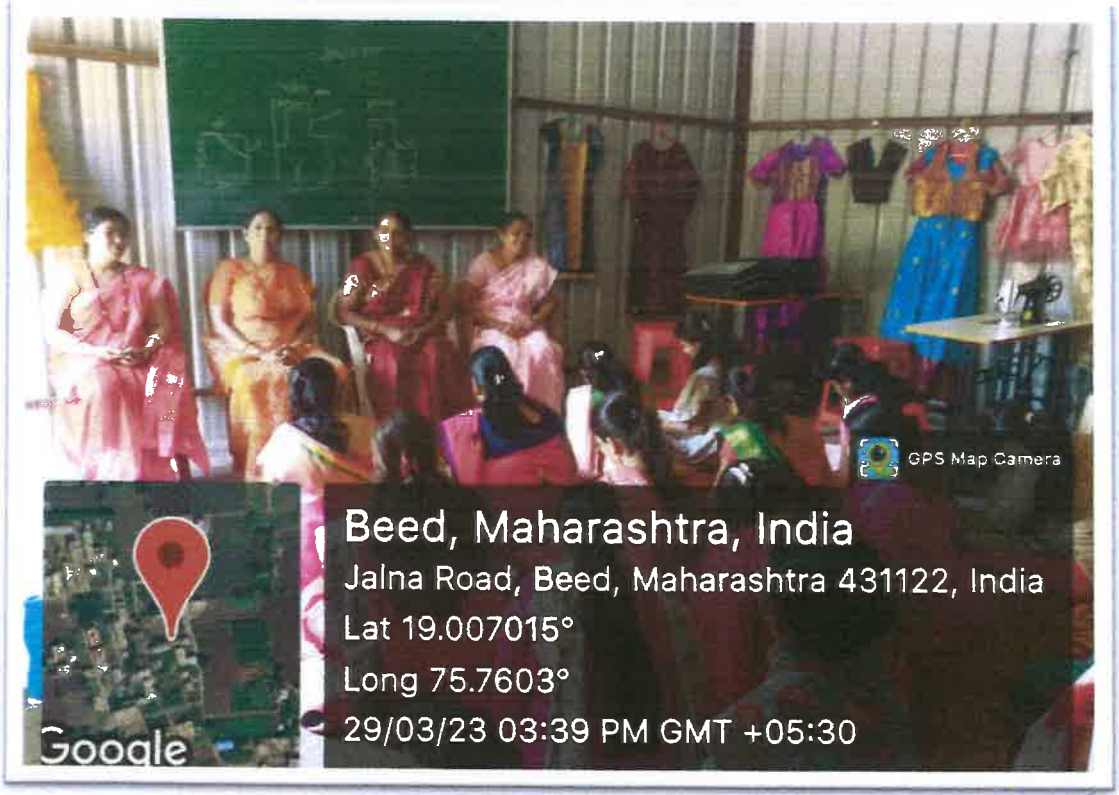
प्रात्यक्षिक परीक्षेच्या वेळी बाह्य परीक्षक सौ.पालकर व प्रशिक्षणार्थी

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,T. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

असिस्टंट ड्रेस मेकर कौशल्य प्रशिक्षण परीक्षेत मग्न प्रशिक्षणार्थी



परीक्षा केंद्रावर उपस्थित परीक्षक व प्रशिक्षणार्थी

Director
Jan Shikshan Sansthan, Beed.

Swa.Sawarkar Mahavidyalaya, Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

मराठवाडा साथी

स्वा.सावरकर महाविद्यालयात कौशल्य प्रशिक्षण कार्यशाळा

बीड (प्रतिनिधी)

दि.२१.११.२०२२ रोजी स्वा. सावरकर महाविद्यालय आणि जनशिक्षण संस्था बीड यांच्या संयुक्त विद्यमाने महाविद्यालयात एक दिवशीय कौशल्य प्रशिक्षण कार्यशाळेचे आयोजन करण्यात आले होते. .कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाच्या प्राचार्या डॉ. प्रिती पोहेकर या होत्या तर प्रमुख मार्गदर्शक म्हणून जन शिक्षण संस्थेचे संचालक श्री. गंगाधर देशमुख यांची उपस्थिती होती. व्यासपीठावर महाविद्यालयाचे उपप्राचार्य डॉ. लक्ष्मीकांत बाहेगव्हाणकर यांची उपस्थिती होती.

महिलांनी व्यावसायिक प्रशिक्षणाला प्राधान्य द्यावे आणि

स्वयंरोजगार निर्माण करावा हाच महिला सबलीकरण पाया आहे असे प्रतिपादन श्री. गंगाधर देशमुख यांनी केले. महाविद्यालय सुरु होत असलेल्या असिस्टंट ड्रेस मेकर (टेलरिंग) या कौशल्य अभ्यासक्रमात जास्तीत जास्त महिलांनी सहभाग घ्यावा असे आवाहन डॉ. पोहेकर यांनी अध्यक्षीय समारोपात केले.

दुसऱ्या सत्रात सौ. सिमा मानुरकर यांनी या कोर्सची संपूर्ण माहिती दिली. तर सौ. स्वाती जैन यांनी या कोर्समध शिकविण्यात येणारे विविध ड्रेस पिशव्या यांचे प्रात्यक्षि दाखविले या कार्यक्रमा प्रास्ताविक डॉ. मेधा गोसा यांनी केले. सूत्रसंचालन प्रा. दि देशपांडे यांनी तर कार्यक्रमा आभार डॉ. शितल कांदे यां मानले कार्यक्रम यशस्व करण्यासाठी महाविद्यालयाती सर्व महिला प्राध्यापिकांनी विशे परिश्रम घेतले. कार्यक्रमाल महिलांची उपस्थिती होती.

BEED Edition
Nov 25, 2022 Page No. 2
Powered by : eReleGo.com

Director
Jan Shikshan Sansthan,Beed

Swa.Sawarkar Mahavidyalaya Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

दिशा • जनशिक्षण संस्थानचे संचालक गंगाधर देशमुख यांचे प्रतिपादन

संधीमुळे महिलांनी व्यावसायिक प्रशिक्षणाला प्राधान्य देण्याची गरज

प्रतिनिधी | बीड

तंत्रज्ञानामुळे विविध क्षेत्रात मोठ्या प्रमाणात संधी उपलब्ध झालेल्या आहेत. त्यामुळे महिलांनी व्यावसायिक प्रशिक्षणाला प्राधान्य द्यावे आणि स्वयंरोजगार निर्माण करावा. हाच महिला सबलीकरणाचा खऱ्या अर्थाने पाया आहे, असे प्रतिपादन जन शिक्षण संस्थानचे संचालक गंगाधर देशमुख यांनी केले.

बीड येथील स्वा.सावरकर महाविद्यालय आणि जनशिक्षण संस्था यांच्या संयुक्त विद्यमाने महाविद्यालयात एक दिवशीय कौशल्य प्रशिक्षण कार्यशाळेचे आयोजन करण्यात आले होते. यावेळी ते बोलत होते. कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाच्या प्राचार्या डॉ. प्रिती पोहेकर या होत्या तर प्रमुख मार्गदर्शक म्हणून जन शिक्षण संस्थेचे संचालक गंगाधर देशमुख यांची तर महाविद्यालयाचे उपप्राचार्य डॉ. लक्ष्मीकांत बाहेगव्हाणकर यांची प्रमुख उपस्थिती होती. महाविद्यालय सुरु होत असलेल्या असिस्टंट ड्रेस मेकर (टेलरिंग) या कौशल्य अभ्यासक्रमात जास्तीत जास्त महिलांनी सहभाग घ्यावा असे आवाहन डॉ. पोहेकर यांनी अध्यक्षीय समारोपात केले. तसेच महिलांनी विविध प्रकारच्या व्यावसायिक कौशल्यांची माहिती घ्यावी. ही कौशल्ये अवगत करून घ्यावीत. यातूनच प्रगतीचा मार्ग खुला होईल, असेही त्यांनी सांगितले. दुसऱ्या सत्रात सिमा मानुरकर यांनी व्यावसायिक अभ्यासक्रमांची संपूर्ण माहिती दिली. तर स्वाती जैन यांनी या कोर्समध्ये शिकवण्यात येणारे विविध ड्रेस, पिशव्या यांचे प्रात्यक्षिक दाखविले. या कार्यक्रमाचे प्रास्ताविक डॉ. मेघा गोसावी यांनी केले. सूत्रसंचालन प्रा. दिपा देशपांडे यांनी केले तर कार्यक्रमाचे आभार डॉ. शितल कांदे यांनी मानले. कार्यक्रम यशस्वी करण्यासाठी महाविद्यालयातील सर्व महिला प्राध्यापिकांनी विशेष परिश्रम घेतले. कार्यक्रमाला परिसरातील महिलांची उपस्थिती लक्षणीय होती.

बीड येथील स्वा.सावरकर महाविद्यालय मार्गदर्शन करताना जन शिक्षण संस्थानचे संचालक गंगाधर देशमुख

महिलाशिवाय सर्वांगीण प्रगती अशक्य

आज महिला प्रत्येक क्षेत्रात पुरुषांच्या बरोबरीने कोम करत आहे ग्रामीण महिलांनीही आता नवनवीन कौशल्ये आत्मसात करत रोजगार निर्मितीसाठी प्रयत्न करावेत. या माध्यमातून कुटूंबाची व राष्ट्राची उन्नती होईल. महिलांशिवाय सर्वांगीण प्रगती अशक्य आहे, असे उपप्राचार्य डॉ.लक्ष्मीकांत बाहेगव्हाणकर यांनी सांगितले.

Director
Jan Shikshan Sansthan, Beed.

Swa. Sawarkar Mahavidyalaya, B.S.P.S Ambajogai, Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय आणि जनशिक्षण संस्थान बीड

कौशल्य प्रशिक्षण अभ्यासक्रम २०२२-२०२३

असिस्टंट ड्रेस मेकर (टेलरिंग)

प्रवेश यादी

१ सौ. मीरा विजय पवार
२ कु. नंदिनी बाळू उपरे
३ कु. वैष्णवी रमेश बेदरकर
४ कु पूजा राजेंद्र सुतवने
५ प्रगती अप्पासाहेब डावकर
६ कु. आरती तुळशीदास कानगावकर
७ कु. वैष्णवी प्रकाश मानुरकर
८ कु विजयश्री वसंतराव भायेकर
९ सौ. सरिता अशोक सर्वज्ञ
१० सौ. .सुलोचना दत्ता राजे
११ कु. नेहा प्रकाश बाब्रस
१२ सौ. स्मिता सतिश पांचाळ
१३ सौ. शामबाला संतोष जोशी
१४ सौ. ज्योतिका हेमंतराव टाक
१५ सौ. शैला राहुल शेटे
१६ कु. अश्विनी भारत आजबे
१७ सौ. आकांशा सागर निराळे
१८ कु. राजेश्री मधुकर ढवळे
१९ सौ. वैशाली किशोर वेदपाठक
२० सौ. मनीषा कालिदास पुराणिक

कोर्स समन्वयक
(Dr. Nosavi M.I.)

प्राचार्य
Principal
Swa.Sawarkar Mahavidyalaya
Beed

Swa.Sawarkar Mahavidyalaya Beed B.S.P.S Ambajogai

Director
Jan Shikshan Sansthan, Beed.

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय व जनशिक्षण संस्था, बीड

यांच्या संयुक्त विद्यमाने

अंसिस्टंट ड्रेस मेकर प्रशिक्षण वर्ग

Skill India

प्रशिक्षणार्थी आवेदन पत्र

दि. / /२०

नाव	मीरा विजय पवार
आधार नंबर	329994338980
ओळखपत्र प्रकार (जर आधार नसेलतर)	रेशन कार्ड ☑ मतदान कार्ड ☐ NA ☐
ओळखपत्र क्रमांक	
वडीलाचे नाव	रामदेव रानोबा कानतोडे
पतीचे नाव	श्री विजय जगन्नाथ पवार
जन्मतारीख / वय	दि. ०१/ ०१/ १९९१
लिंग	पुरुष ☐ स्त्री ☑ ट्रान्सजेंडर ☐
वैवाहिक स्थिती	विवाहीत ☑ अविवाहीत ☐
शारिरीक दिव्यांग (PWD)	होय ☐ नाही ☑
जात प्रवर्ग	एस.सी. ☐ एस.टी. ☐ ओ.बी.सी. ☐ अल्पसंख्याक ☐ इतर ☑
शैक्षणिक पात्रता	निरक्षर ☐ नवसाक्षर ☐ रुडीमेंट्री ☐
	५ वी ते ८ वी ☑ ९ वी ते १० वी ☐ ११ वी ते १२ ☐
पत्ता व पिनकोड राज्य व जिल्हा	फुलाई नगर, पवार मळा, बीड
मोबाईल नं. व ई-मेल ID	मोबाईल नं. 9 1 7 2 3 3 4 0 9 2 ई-मेल ID :
उत्पन्न पातळी	APL ☐ BPL ☑
शुल्क प्रकार	शुल्क ☑ सवलत ☐ नि:शुल्क ☐
रोजगार स्थिती	रोजगार ☐ बेरोजगार ☑ स्वयंरोजगार ☐

अस्वीकरण (DISCLAMIER)

दिलेली वरील सर्व माहिती खरी आहे. या माहितीत काही खोटेपणा आढळल्यास होणाऱ्या परिणामांना मी जबाबदार असेल व माझी प्रक्षिणातील नोंदणी आपोआप रदद होईल. हे मला मान्य आहे. या माहितीचा उपयोग रोजगारासाठी व पडताळणीसाठी केल्यास हरकत नाही.

मीरा

प्रशिक्षणार्थीचे ~~हस्ताक्षर~~ / अंगठा

Director
Jan Shikshan Sansthan, Beed.

Nosavi.
कोर्स समन्वयक
(Dr. Nosavi M.M.)

Swa. Sawarkar Mahavidyalaya, Beed
B.S.P.S
Ambajogai

Principal
प्राचार्या
Swa. Sawarkar Mahavidyalaya
Beed.

Principal
Swa. Sawarkar Mahavidyal
Beed.

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय व जनशिक्षण संस्था, बीड

यांच्या संयुक्त विद्यमाने

अंसिस्टंट ड्रेस मेकर प्रशिक्षण वर्ग

प्रशिक्षणार्थी आवेदन पत्र

Jan Shikshan Sansthan

Skill India
कौशल भारत - कुशल भारत

दि. 28/11/2022

नाव	कु. नंदिनी बाळु उपरे
आधार नंबर	907811341076
ओळखपत्र प्रकार (जर आधार नसेलतर)	रेशन कार्ड [ ] मतदान कार्ड [ ] NA [ ]
ओळखपत्र क्रमांक	
वडीलाचे नाव	बाळु देवीदास उपरे
पतीचे नाव	
जन्मतारीख / वय	दि. 30/11/2004
लिंग	पुरुष [ ] स्त्री [✓] ट्रान्सजेंडर [ ]
वैवाहिक स्थिती	विवाहीत [ ] अविवाहीत [✓]
शारिरीक दिव्यांग (PWD)	होय [ ] नाही [✓]
जात प्रवर्ग	एस.सी. [ ] एस.टी. [ ] ओ.बी.सी. [✓] अल्पसंख्याक [ ] इतर [ ]
शैक्षणिक पात्रता	निरक्षर [ ] नवसाक्षर [ ] रुडीमेंट्री [ ]
	५ वी ते ८ वी [ ] ९ वी ते १० वी [ ] ११ वी ते १२ [✓]
पत्ता व पिनकोड राज्य व जिल्हा	शुक्रवार पेठ, बीड. बीड
मोबाईल नं. व ई-मेल ID	मोबाईल नं. 9 8 8 1 2 5 1 8 1 1 ई-मेल ID :
उत्पन्न पातळी	APL [ ] BPL [ ]
शुल्क प्रकार	शुल्क [✓] सवलत [ ] नि:शुल्क [ ]
रोजगार स्थिती	रोजगार [ ] बेरोजगार [✓] स्वयंरोजगार [ ]

अस्वीकरण (DISCLAMIER)

दिलेली वरील सर्व माहिती खरी आहे. या माहितीत काही खोटेपणा आढळल्यास होणाऱ्या परिणामांना मी जबाबदार असेल व माझी प्रक्षिणातील नोंदणी आपोआप रद्द होईल. हे मला मान्य आहे. या माहितीचा उपयोग रोजगारासाठी व पडताळणीसाठी केल्यास हरकत नाही.

Nandini

प्रशिक्षणार्थीचे हस्ताक्षर / अंगठा

Director
Jan Shikshan Sansthan, Beed.

Mosami
कोर्स समन्वयक
(Dr. Mosavi M)

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S. Ambajogai

Principal
Swa. Sawarkar Mahavidyalaya, Beed.
प्राचार्य
Swa. Sawarkar Mahavidyalaya
Beed.

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय व
जनशिक्षण संस्थान, बीड

यांच्या संयुक्त विद्यमाने

प्लंबिंग प्रशिक्षण वर्ग

प्रशिक्षणार्थी आवेदन पत्र

दि. 14/01/2023

नाव	रोशनी दिगंबर चौधुल
आधार नंबर	694273582454
ओळखपत्र प्रकार (जर आधार नसेलतर)	रेशन कार्ड ☐ मतदान कार्ड ☐ NA ☐
ओळखपत्र क्रमांक	
वडीलाचे नाव	
पतीचे नाव	
जन्मतारीख / वय	दि. 24/10/2004.
लिंग	पुरुष ☐ स्त्री ☑ ट्रान्सजेंडर ☐
वैवाहिक स्थिती	विवाहीत ☐ अविवाहीत ☑
शारिरीक दिव्यांग (PWD)	होय ☐ नाही ☑
जात प्रवर्ग	एस.सी. ☐ एस.टी. ☐ ओ.बी.सी. ☑ अल्पसंख्याक ☐ इतर ☐
शैक्षणिक पात्रता	निरक्षर ☐ नवसाक्षर ☐ रुडीमेंट्री ☐
	५ वी ते ८ वी ☐ ९ वी ते १० वी ☐ ११ वी ते १२ ☑
पत्ता व पिनकोड	बुधवार पेठ, डिजामाता चौक, बीड.
राज्य व जिल्हा मोबाईल नं. व ई-मेल ID	मोबाईल नं. 9 8 8 1 0 5 2 7 6 1 ई-मेल ID :_____
उत्पन्न पातळी	APL ☐ BPL ☐
शुल्क प्रकार	शुल्क ☐ सवलत ☐ नि:शुल्क ☐
रोजगार स्थिती	रोजगार ☐ बेरोजगार ☐ स्वयंरोजगार ☐

अस्वीकरण (DISCLAMIER)

दिलेली वरील सर्व माहिती खरी आहे. या माहितीत काही खोटेपणा आढळल्यास होणाऱ्या परिणामांना मी जबाबदार असेल व माझी प्रक्षिणातील नोंदणी आपोआप रदद होईल. हे मला मान्य आहे. या माहितीचा उपयोग रोजगारासाठी व पडताळणीसाठी केल्यास हरकत नाही.

Director
Jan Shikshan Sansthan, Beed.

प्रशिक्षणार्थीचे हस्ताक्षर / अंगठा

Hosavi.
कोर्स समन्वयक
(Dr. Hosavi M.

Swa. Sawarkar Mahavidyalaya Beed
B.S.P.S Ambajogai

Principal
Swa. Sawarkar Mahavidyalaya,
Beed.
Principal
Swa. Sawarkar Mahavidyalaya

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय व जनशिक्षण संस्थान, बीड

यांच्या संयुक्त विद्यमाने

प्लंबिंग प्रशिक्षण वर्ग

प्रशिक्षणार्थी आवेदन पत्र

दि. 14/01/2023

नाव	श्री चौधरी किर्ती प्रकाश
आधार नंबर	890421427257
ओळखपत्र प्रकार (जर आधार नसेलतर)	रेशन कार्ड ☐ मतदान कार्ड ☐ NA ☐
ओळखपत्र क्रमांक	
वडीलाचे नाव	
पतीचे नाव	
जन्मतारीख / वय	दि. 28/04/1995
लिंग	पुरुष ☐ स्त्री ☐ ट्रान्सजेंडर ☑
वैवाहिक स्थिती	विवाहीत ☑ अविवाहीत ☐
शारिरीक दिव्यांग (PWD)	होय ☐ नाही ☐
जात प्रवर्ग	एस.सी. ☑ एस.टी. ☐ ओ.बी.सी. ☐ अल्पसंख्याक ☐ इतर ☐
शैक्षणिक पात्रता	निरक्षर ☐ नवसाक्षर ☐ रुडीमेंट्री ☐
	५ वी ते ८ वी ☐ ९ वी ते १० वी ☐ ११ वी ते १२ ☑
पत्ता व पिनकोड	चौधरीचा वाडा ; जोगाई चौक, मयूर नगर बीड
राज्य व जिल्हा मोबाईल नं. व ई-मेल ID :	मोबाईल नं. 9 6 9 9 4 4 7 0 4 7 ई-मेल ID : _____
उत्पन्न पातळी	APL ☐ BPL ☐
शुल्क प्रकार	शुल्क ☐ सवलत ☐ नि:शुल्क ☐
रोजगार स्थिती	रोजगार ☐ बेरोजगार ☐ स्वयंरोजगार ☐

अस्वीकरण (DISCLAMIER)

दिलेली वरील सर्व माहिती खरी आहे. या माहितीत काही खोटेपणा आढळल्यास होणाऱ्या परिणामांना मी जबाबदार असेल व माझी प्रक्षिणातील नोंदणी आपोआप रदद होईल. हे मला मान्य आहे. या माहितीचा उपयोग रोजगारासाठी व पडताळणीसाठी केल्यास हरकत नाही.

Director
Jan Shikshan Sansthan, Beed

समन्वयक

Principal
Swa. Sawarkar Mahavidyalaya, Beed.

किर्ती चौधरी
प्रशिक्षणार्थीचे हस्ताक्षर / अंगठा

Dr. Hosavi M.

Swa. Sawarkar Mahavidyalaya, Beed
B.S.P.S
Ambajogai

प्राचार्य
Principal

Plumbing Course

2022-23

(8)

॥ केल्याने होत आहे रे | आधि केलेचि पाहिजे ॥

भारतीय शिक्षण प्रसारक संस्था अंबाजोगाई

स्वा.सावरकर महाविद्यालय आणि जन शिक्षण संस्थान,बीड यांच्या संयुक्त विद्यमाने

असिस्टंट ड्रेस मेकर (टेलरिंग)

व

प्लंबिंग, रेनवॉटर हार्वेष्टींग तथा जलपुनर्रभरण

कौशल्य विकास प्रशिक्षण अहवाल-2022-23

: प्रेरणा :

प्राचार्या डॉ.प्रीती पोहेकर

उपप्राचार्य डॉ.लक्ष्मीकांत बाहेगव्हाणकर

उपप्राचार्य डॉ.राजेश ढेरे

डॉ.मेधा गोसावी

MOU प्रमुख

डॉ.संगिता ससाणे

सहप्रमुख

प्रात्यक्षिक परीक्षेच्या वेळी प्रशिक्षका सौ.शुभांगी जैन व प्रशिक्षणार्थी

प्लबिंग, रेनवॉटर हार्वेष्टींग तथा जलपुनर्रभरण कौशल्य विकास प्रशिक्षण :

स्वा.सावरकर महाविद्यालय,बीड आणि जनशिक्षण संस्थान बीड यांच्या संयुक्त विद्यमाने पुन्हा एक पाऊल पुढे टाकून महिला सबलीकरणाच्या दृष्टीकोणातून प्लबिंग, रेनवॉटर हार्वेष्टींग तथा जलपूर्नभरण ही महाराष्ट्रातील पहिली मुलींची स्वतंत्र बॅच आपण महाविद्यालयात सुरु केला आहे. दि.२५ जानेवारी २०२३ रोजी राष्ट्रीय मतदार दिन कार्यक्रमात या नवीन बॅचचे उद्घाटन करुन बॅचची सुरुवात करण्यात आली आहे. या उद्घाटन समारंभासाठी अप्पर जिल्हाधिकारी मा.श्री.उत्तमरावजी पाटील, उपविभागीय अधिकारी मा.श्री.नामदेवजी टिळेकर या अभ्यासवर्गाच्या उद्घाटक डॉ.सौ.सीमा जोशी, मा.श्री.विवेक पालवणकर, (स्था.व्य.स.कार्यवाह) श्री.गंगाधर देशमुख, प्राचार्या डॉ.प्रीती पोहेकर, उपप्राचार्य डॉ.बाहेगव्हाणकर, उपप्राचार्य डॉ.ढेरे तसेच सर्व प्राध्यापकवृंद व विद्यार्थी वर्ग उपस्थित होता. या कार्यक्रमाचे सूत्रसंचलन प्रा.डॉ.मेधा गोसावी यांनी केले तर आभार डॉ.बाहेगव्हाणकर यांनी मानले.

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

प्लबिंग, रेनवॉटर हार्वेष्टींग तथा जलपुनर्रभरण कौशल्य विकास प्रशिक्षण उद्घाटन क्षणचित्रे

प्लबिंग कौशल्य प्रशिक्षण उद्घाटन समारंभात बोलताना अप्पर जिल्हाधिकारी मा.उत्तमराव पाटील, मा.नामदेवराव टिळेकर,डॉ.विवेक पालवनकर,डॉ.सौ.सीमा जोशी, प्राचार्या डॉ.पोहेकर व उप्राचार्य डॉ.बाहेगव्हाणकर

टेलरिंग प्रदर्शनी पाहताना सर्व मान्यवर व प्रशिक्षणार्थी

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

उद्घाट समारंभ ात मार्गदर्शन करतान प्राचार्या डॉ.पोहेकर स सर्व मान्यवर

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed
B.S.P.S
Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

सर्व मान्यवरासह प्रशिक्षक व प्रशिक्षणार्थी

तीन महिन्याचा हा अभ्यासवर्ग असून यामध्ये सौ.आधारे ताई या थेअरी प्रशिक्षण देत आहेत, तर श्री.सतकर (प्लंबर) हे मुलींना विविध साईटवर घेऊन जाऊन प्लबिंगचे प्रॅक्टीकलचे प्रशिक्षण देत आहेत. या अभ्यास वर्गामध्ये मर्यादित २० प्रवेश असून हा कोर्स संपूर्ण नि:शुल्क आहे. महाविद्यालयातील तिनही शाखेतील मुलींचा यात सहभाग आहे.

प्लबिंग प्रशिक्षण प्रत्यक्ष घेताना प्रशिक्षणार्थी क्षणचित्रे

प्रत्यक्ष साईटवर काम करताना प्रशिक्षणार्थी

Director
Jan Shikshan Sansthan,Beed

Swa.Sawarkar Mahavidyalaya,Beed
B.S.P.S
Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

नळाचे लिकेज काढताना प्रशिक्षक व प्रशिक्षणार्थी

साईटवर नळजोडणी करताना प्रशिक्षणार्थी व प्रशिक्षक सतकर

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed.
B.S.P.S
Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

प्रत्यक्ष साईटवर काम करताना प्रशिक्षणार्थी

साईट प्रात्यक्षिक शिकताना विद्यार्थी व प्लंबर श्री.सतकर

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed.
B.S.P.S
Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

बेसीनची नळ दुरुस्ती शिकवताना प्लंबर व प्रशिक्षणार्थी

हा अभ्यासवर्ग पूर्ण झाल्यानंतर प्रशिक्षणार्थींना शासनाचे प्रमाणपत्र आणि स्वयंरोजगारा साठी कर्ज मिळवून देण्यास मदत केली जाणार आहे.

दि.९ एप्रिल २०२३ रोजी प्लंबिंग, रेनवॉटर हार्वेष्टींग व जलपुनर्रभरण कौशल्य विकास प्रशिक्षण या कोर्समधील सर्व सहभागी प्रशिक्षणार्थीची १०० मार्कांची लेखी, तोंडी व प्रात्यक्षिक परीक्षा महाविद्यालयात संपन्न झाली. यावेळी बाह्य परीक्षक म्हणून श्री.दिनेश जोगदंड उपस्थित होते. तसेच जनशिक्षण संस्थांनचे सहाय्यक कार्यक्रमधिकारी श्री.सुदाम पालकर, प्लंबिगचे प्रशिक्षक श्री.जालिंदर सतकर, महाविद्यालयाच्या प्राचार्या डॉ.प्रिती पोहेकर, समन्व्यक डॉ.मेधा गोसावी व सौ.संगिता ससाणे उपस्थित होत्या.

Director
Jan Shikshan Sansthan, Beed.

Swa. Sawarkar Mahavidyalaya Beed
B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

प्लंबिंग, रेनवॉटर हार्वेष्टींग व जलपुनर्रभरण कौशल्य प्रशिक्षण परीक्षेची क्षणचित्रे

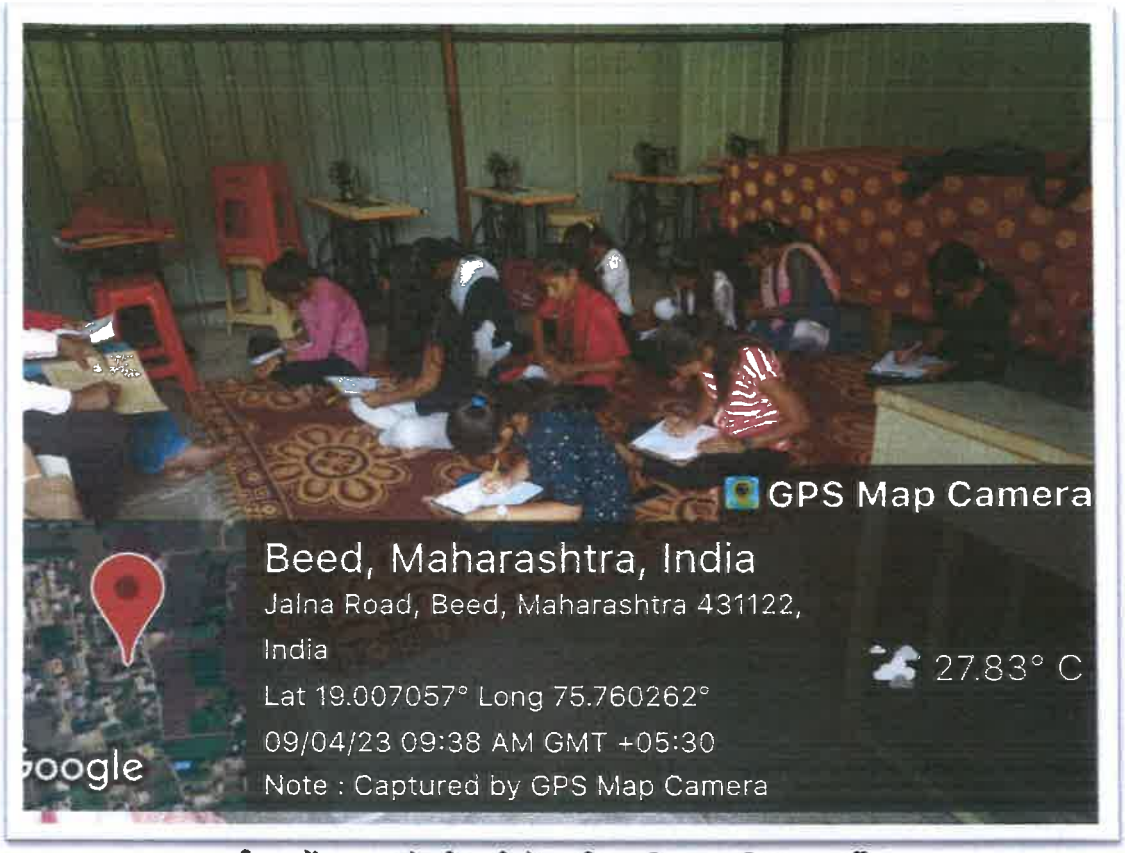
प्लंबिक कौशल्य विकास प्रशिक्षण प्रात्यक्षिक परीक्षेच्या वेळी उपस्थित परीक्षक श्री.जालिंदर सतकर व प्रशिक्षणार्थी

परीक्षा केंद्रावर तोंडी परीक्षेसाठी उपस्थित परीक्षक श्री.सतकर, श्री.पालकर,श्री.जोगदंड, डॉ.गोसावी, डॉ.ससाणे व प्रशिक्षणार्थी

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,B.Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.



परीक्षा केंद्रावर लेखी परीक्षेसाठी उपस्थित प्रशिक्षणार्थी

प्रा.डॉ.मेधा गोसावी
MOU प्रमुख
स्वा.सावरकर महाविद्यालय व
जनशिक्षण संस्थान,बीड

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya, Beed
B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

दैनिक भास्कर

2023-03-07
बीड (-2)

महिला दिन विशेष • बीडचे जन शिक्षण संस्थान, सावरकर महाविद्यालयाकडून तीन महिन्यांचा प्लंबिंगचा कोर्स सुरू

महिला, युवती करणार आता घरातील नळांची दुरुस्ती

प्रतिनिधी | बीड

अनेक अशी क्षेत्रे आहेत, जेथे पुरुषांचीच मक्तेदारी दिसून येते. परंतु आता अशा क्षेत्रांमध्येही महिला आपले वर्चस्व सिद्ध करत आहेत. विविध संस्था, संघटनांकडून त्यांना तशी संधी उपलब्ध केली जात आहे. बीडमध्ये आता जन शिक्षण संस्था आणि स्वा. सावरकर महाविद्यालयाच्या संयुक्त विद्यमाने कौशल्य प्रशिक्षण उपक्रम सुरू करण्यात आला आहे. या अंतर्गत महिला आता प्लंबिंगचे कौशल्य प्रशिक्षण घेत आहेत. महाविद्यालयात राबवला जाणारा अशा प्रकारचा हा राज्यातील पहिला उपक्रम असल्याचा दावा करण्यात आला आहे. तीन महिन्यांच्या प्रशिक्षणातून महिला-युवतींना स्वयंरोजगार तसेच प्रशिक्षण प्रमाणपत्राद्वारे प्लंबर पदाच्या नोकरीच्या संधी उपलब्ध होतील.

एखाद्या गावात, परिसरात, कॉलनीत २० किंवा त्यापेक्षा अधिक महिला-युवतींसाठी या प्रशिक्षणाची स्वतंत्र त्याच परिसरात बॅच घेतली जाणार असल्याचे जन शिक्षण संस्थानचे संचालक गंगाधर देशमुख म्हणाले. प्लंबर प्रशिक्षण पूर्ण झाल्यानंतर कंत्राटदार योजनांमार्फत त्यांना कॉन्ट्रॅक्टरकडे मिळवून दिले जाणार आहे किंवा प्रशिक्षणार्थींनी स्वतःचा व्यवसायदेखील सुरू करता येऊ शकतो, अशी माहिती प्राचार्य घोडेकर यांनी दिली.

विधवा, परित्यक्ता, दिव्यांगांना देणार मोफत प्रशिक्षण

बीडमध्ये प्लंबिंगचा अभ्यासक्रम सुरू केला असून याचे प्रशिक्षण दिले जात आहे.

विधवा, परित्यक्ता, दिव्यांगांना मोफत प्रशिक्षण

जन शिक्षण संस्थानचे अध्यक्ष डॉ. योगेश कुलकर्णी यांच्या प्रयत्नातून कोर्स सुरू केला. हा उपक्रम महाराष्ट्र राज्यातील पहिला आहे. यात विधवा, परित्यक्ता, दिव्यांग, एससी, एसटी मुली-महिलांना मोफत प्रशिक्षण दिले जाणार आहे. इतरांकडून केवळ नाममात्र फीस घेतली जाईल.
- गंगाधर देशमुख, संचालक, जन शिक्षण संस्थान, बीड.

हे काम युनिक आहे

योग्य प्रशिक्षण मिळाले तर हे काम अवघड नाही हे युनिक आहे. मी बी.कॉम.च्या द्वितीय वर्षात शिकत आहे तरीही प्लंबर प्रशिक्षण घ्यायचे ठरवले. महिलांना अनेक ठिकाणी काम मिळते आहे. कामे केली आहेत.
आदिती गुजर, विद्यार्थिनी.

Director
Jan Shikshan Sansthan, Beed.

Swa. Sawarkar Mahavidyalaya, Beed.
B.S.P.S
Ambajogai

Principal
Swa. Sawarkar Mahavidyalaya,
Beed.

Forwarded

बीडमध्ये मुलीही करणार नळजोडणी, पहिल्यांदाच दिसणार 'महिला प्लंबर', Vid...
आता मुलीही नळजोडणीची कामे करताना दिसणा...
lokmat.news18.com

Beed News: बीडमध्ये मुलीही करणार नळजोडणी, पहिल्यांदाच दिसणार 'महिला प्लंबर', Video

https://lokmat.news18.com/maharashtra/beed/now-girls-will-also-do-plumbing-work-a-three-month-course-has-started-in-beed-852815.html

Rohit deshpande Mo- 7507900350
News18 local Consultant Journalist Beed

6:21 pm

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय व
जनशिक्षण संस्थान, बीड

यांच्या संयुक्त विद्यमाने

प्लंबिंग प्रशिक्षण वर्ग

प्रशिक्षणार्थी आवेदन पत्र

दि. 02/01/2023

नाव	कु. अदिती विठ्ठल गुजर
आधार नंबर	5372 9581 5458
ओळखपत्र प्रकार (जर आधार नसेलतर)	रेशन कार्ड ☐ मतदान कार्ड ☐ NA ☐
ओळखपत्र क्रमांक	
वडीलाचे नाव	श्री. विठ्ठल भाऊराव गुजर
पतीचे नाव	
जन्मतारीख / वय	दि. 06/06/2002
लिंग	पुरुष ☐ स्त्री ☑ ट्रान्सजेंडर ☐
वैवाहिक स्थिती	विवाहीत ☐ अविवाहीत ☑
शारिरीक दिव्यांग (PWD)	होय ☐ नाही ☑
जात प्रवर्ग	एस.सी. ☐ एस.टी. ☐ ओ.बी.सी. ☐ अल्पसंख्याक ☐ इतर ☑
शैक्षणिक पात्रता	निरक्षर ☐ नवसाक्षर ☐ रुडीमेंट्री ☐
	५ वी ते ८ वी ☐ ९ वी ते १० वी ☐ ११ वी ते १२ ☐
पत्ता व पिनकोड	मु. पोस्ट. सिरसदेवी, ता. गेवराई, जि. बीड. 431122
राज्य व जिल्हा मोबाईल नं. व ई-मेल ID	मोबाईल नं. 9 5 1 1 1 1 4 0 2 0 ई-मेल ID : aditigujar2910@gmail.com
उत्पन्न पातळी	APL ☑ BPL ☐
शुल्क प्रकार	शुल्क ☐ सवलत ☐ नि:शुल्क ☐
रोजगार स्थिती	रोजगार ☐ बेरोजगार ☐ स्वयंरोजगार ☐

अस्वीकरण (DISCLAMIER)

दिलेली वरील सर्व माहिती खरी आहे. या माहितीत काही खोटेपणा आढळल्यास होणाऱ्या परिणामांना मी जबाबदार असेल व माझी प्रक्षिणातीत नोंदणी रद्द होईल. हे मला मान्य आहे. या माहितीचा उपयोग रोजगारासाठी व पडताळणीसाठी केल्यास हरकत नाही.

Director
Jan Shikshan Sansthan Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Swa. Sawarkar Mahavidyalaya, Beed.
B.S.P.S Ambajogai

AAK

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय व जनशिक्षण संस्था, बीड

यांच्या संयुक्त विद्यमाने

अंसिस्टंट ड्रेस मेकर प्रशिक्षण वर्ग

Skill India

प्रशिक्षणार्थी आवेदन पत्र

दि. 28/11/2022

नाव	सौ. पुराणिक मनिषा कालिदास
आधार नंबर	818649516197
ओळखपत्र प्रकार (जर आधार नसेलतर)	रेशन कार्ड ☐ मतदान कार्ड ☐ NA ☐
ओळखपत्र क्रमांक	
वडीलाचे नाव	
पतीचे नाव	श्री कालिदास वसंतराव पुराणिक
जन्मतारीख / वय	दि. 14/12/80
लिंग	पुरुष ☐ स्त्री ☑ ट्रान्सजेंडर ☐
वैवाहिक स्थिती	विवाहीत ☑ अविवाहीत ☐
शारिरीक दिव्यांग (PWD)	होय ☐ नाही ☐
जात प्रवर्ग	एस.सी. ☐ एस.टी. ☐ ओ.बी.सी. ☐ अल्पसंख्याक ☐ इतर ☑
शैक्षणिक पात्रता	निरक्षर ☐ नवसाक्षर ☐ रुडीमेंट्री ☐
	५ वी ते ८ वी ☐ ९ वी ते १० वी ☐ ११ वी ते १२ ☑
पत्ता व पिनकोड राज्य व जिल्हा	सावरकर महाविद्यालया मागे, विनायक नगर, बीड बीड, जि. बीड, महाराष्ट्र
मोबाईल नं. व ई-मेल ID	मोबाईल नं. 8 7 5 8 0 0 3 5 6 6 ई-मेल ID :
उत्पन्न पातळी	APL ☐ BPL ☐
शुल्क प्रकार	शुल्क ☑ सवलत ☐ नि:शुल्क ☐
रोजगार स्थिती	रोजगार ☐ बेरोजगार ☑ स्वयंरोजगार ☐

अस्वीकरण (DISCLAMIER)

दिलेली वरील सर्व माहिती खरी आहे. या माहितीत काही खोटेपणा आढळल्यास होणाऱ्या परिणामांना मी जबाबदार असेल व माझी प्रक्षिणातील नोंदणी आपोआप रदद होईल. हे मला मान्य आहे. या माहितीचा उपयोग रोजगारासाठी व पडताळणीसाठी केल्यास हरकत नाही.

Director
Jan Shikshan Sansthan Beed.

Swa. Sawarkar Mahavidyalaya B.S.P.S Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

मनिषा
प्रशिक्षणार्थीचे हस्ताक्षर / अंगठा

प्राचार्या

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय आणि जनशिक्षण संस्थान बीड

कौशल्य प्रशिक्षण अभ्यासक्रम २०२२-२०२३

प्लंबिंग ,रेनवाटर हार्वेस्टिंग प्रशिक्षण वर्ग

प्रवेश यादी

1. कु. गौरी गणेश शेटे
2. कु. चैताली श्रीराम कैवाडे
3. सौ. कीर्ती प्रकाश चौधरी
4. कु. ऐश्वर्या दिगंबर चांगुल
5. कु. अंजली जालिंदर शिंदे
6. कु. ऋतुजा दिलीप हावळे
7. कु. मृदुला बसवेश्वर वालवाडकर
8. कु. सानिका अनिलराव कुलकर्णी
9. कु. निशा परशुराम रोटे
10. कु. तनुजा संजय मल्ले
11. कु. शुभांगी अर्जुन म्हेत्रे
12. कु. सुवर्णा गणेश नवले
13. कु. पायल प्रकाश उनवणे
14. कु. अदिती विठ्ठल गुजर
15. कु. सोनल भगवान वाघमारे
16. कु. राधिका विनायक वझे
17. कु. ऋतुजा लक्ष्मण गव्हाणे
18. कु. पल्लवी विठ्ठल कोसले
19. कु. वैभवी उमाकांत गरुड
20. कु. सुभाषिणी विनायक वझे

कोर्स समन्वयक

(Dr. Hosavi M.I)

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya Beed B.S.P.S Ambajogai

प्राचार्य

Principal
Swa.Sawarkar Mahavidyalaya
Beed

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय व

जनशिक्षण संस्थान, बीड

यांच्या संयुक्त विद्यमाने

प्लंबिंग प्रशिक्षण वर्ग

प्रशिक्षणार्थी आवेदन पत्र

दि. 02/ 01/२०23

नाव	कु. अदिती विठ्ठल गुजर
आधार नंबर	5372 9581 5458
ओळखपत्र प्रकार (जर आधार नसेलतर)	रेशन कार्ड ☐ मतदान कार्ड ☐ NA ☐
ओळखपत्र क्रमांक	
वडीलाचे नाव	श्री. विठ्ठल भाऊराव गुजर
पतीचे नाव	
जन्मतारीख / वय	दि. 06/ 06/2002
लिंग	पुरुष ☐ स्त्री ☑ ट्रान्सजेंडर ☐
वैवाहिक स्थिती	विवाहीत ☐ अविवाहीत ☑
शारिरीक दिव्यांग (PWD)	होय ☐ नाही ☑
जात प्रवर्ग	एस.सी. ☐ एस.टी. ☐ ओ.बी.सी. ☐ अल्पसंख्याक ☐ इतर ☑
शैक्षणिक पात्रता	निरक्षर ☐ नवसाक्षर ☐ रुडीमेंट्री ☐
	५ वी ते ८ वी ☐ ९ वी ते १० वी ☐ ११ वी ते १२ ☐
पत्ता व पिनकोड	मु. पोस्ट. सिरसदेवी , ता. गेवराई , जि. बीड . 431122
राज्य व जिल्हा मोबाईल नं. व ई-मेल ID	मोबाईल नं. 9 5 1 1 1 1 4 0 2 0 ई-मेल ID : aditigujar2910@gmail.com
उत्पन्न पातळी	APL ☑ BPL ☐
शुल्क प्रकार	शुल्क ☐ सवलत ☐ नि:शुल्क ☐
रोजगार स्थिती	रोजगार ☐ बेरोजगार ☐ स्वयंरोजगार ☐

अस्वीकरण (DISCLAMIER)

दिलेली वरील सर्व माहिती खरी आहे. या माहितीत काही खोटेपणा आढळल्यास होणाऱ्या परिणामांना मी जबाबदार असेल व माझी प्रक्षिणातील नोंदणी आपोआप रदद होईल. हे मला मान्य आहे. या माहितीचा उपयोग रोजगारासाठी व पडताळणीसाठी केल्यास हरकत नाही.

Director
Jan Shikshan Sansthan, Beed.

Principal
Swa.Sawarkar Mahavidyalaya, Beed

Swa.Sawarkar Mahavidyalaya, Beed. B.S.P.S Ambajogai

प्रशिक्षणार्थीचे हस्ताक्षर / अंगठा

प्राचार्या

AAK

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय व जनशिक्षण संस्था, बीड

यांच्या संयुक्त विद्यमाने

अंसिस्टंट ड्रेस मेकर प्रशिक्षण वर्ग

Jan Shikshan Sansthan

Skill India

प्रशिक्षणार्थी आवेदन पत्र

दि. 28/11/2022

नाव	सौ पुराणिक मनिषा कालिदास
आधार नंबर	818649516197
ओळखपत्र प्रकार (जर आधार नसेलतर)	रेशन कार्ड ☐ मतदान कार्ड ☐ NA ☐
ओळखपत्र क्रमांक	
वडीलाचे नाव	
पतीचे नाव	श्री कालिदास वैभवाय पुराणिक
जन्मतारीख / वय	दि. 14/12/80
लिंग	पुरुष ☐ स्त्री ☑ ट्रान्सजेंडर ☐
वैवाहिक स्थिती	विवाहीत ☑ अविवाहीत ☐
शारिरीक दिव्यांग (PWD)	होय ☐ नाही ☐
जात प्रवर्ग	एस.सी. ☐ एस.टी. ☐ ओ.बी.सी. ☐ अल्पसंख्याक ☐ इतर ☑
शैक्षणिक पात्रता	निरक्षर ☐ नवसाक्षर ☐ रुडीमेंट्री ☐
	५ वी ते ८ वी ☐ ९ वी ते १० वी ☐ ११ वी ते १२ ☑
पत्ता व पिनकोड राज्य व जिल्हा	सावरकर महाविद्यालया मागे, विनायक नगर, बीड बीड, जि. बीड, महाराष्ट्र
मोबाईल नं. व ई-मेल ID	मोबाईल नं. 8 7 8 8 0 0 3 5 6 6 ई-मेल ID :
उत्पन्न पातळी	APL ☐ BPL ☐
शुल्क प्रकार	शुल्क ☑ सवलत ☐ नि:शुल्क ☐
रोजगार स्थिती	रोजगार ☐ बेरोजगार ☑ स्वयंरोजगार ☐

अस्वीकरण (DISCLAMIER)

दिलेली वरील सर्व माहिती खरी आहे. या माहितीत काही खोटेपणा आढळल्यास होणाऱ्या परिणामांना मी जबाबदार असेल व माझी प्रक्षिणातील नोंदणी ओघोओप रदद होईल. हे मला मान्य आहे. या माहितीचा उपयोग रोजगारासाठी व पडताळणीसाठी केल्यास हरकत नाही.

Director
Jan Shikshan Sansthan, Beed

Swa. Sawarkar Mahavidyalaya B.S.P.S Ambajogai Beed

Principal
Swa. Sawarkar Mahavidyalaya
Beed.

मनिषा
प्रशिक्षणार्थीचे हस्ताक्षर / अंगठा

Principal
Swa. Sawarkar Mahavidyalaya
Beed.

भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय आणि जनशिक्षण संस्थान बीड

कौशल्य प्रशिक्षण अभ्यासक्रम २०२२-२०२३

प्लंबिंग ,रेनवाटर हार्वेस्टिंग प्रशिक्षण वर्ग

प्रवेश यादी

1. कु. गौरी गणेश शेटे
2. कु. चैताली श्रीराम कैवाडे
3. सौ. कीर्ती प्रकाश चौधरी
4. कु. ऐश्वर्या दिगंबर चांगुल
5. कु. अंजली जालिंदर शिंदे
6. कु. ऋतुजा दिलीप हावळे
7. कु. मृदुला बसवेश्वर वालवाडकर
8. कु. सानिका अनिलराव कुलकर्णी
9. कु. निशा परशुराम रोटे
10. कु. तनुजा संजय मल्ले
11. कु. शुभांगी अर्जुन म्हेत्रे
12. कु. सुवर्णा गणेश नवले
13. कु. पायल प्रकाश उनवणे
14. कु. अदिती विठ्ठल गुजर
15. कु. सोनल भगवान वाघमारे
16. कु. राधिका विनायक वझे
17. कु. ऋतुजा लक्ष्मण गव्हाणे
18. कु. पल्लवी विठ्ठल कोसले
19. कु. वैभवी उमाकांत गरुड
20. कु. सुभाषिणी विनायक वझे

Hosavi

कोर्स समन्वयक

(Dr. Hosavi M.I)

Director
Jan Shikshan Sansthan,Beed.

Swa.Sawarkar Mahavidyalaya,Beed B.S.P.S Ambajogai

प्राचार्य

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Terna Radio & Dept. of Political Sci 2022-23 (8),(10),(11),(12) Dept. of Political Science

केल्याने होत आहे रे । आधि केलेचि पाहिजे ।।
Bhartiya Shikshan Prasarak Sanstha, Ambajogai
Swa. Sawarkar Mahavidyalaya, Beed
Arts, Science & Commerce
NAAC Accreditation Grade 'B'
Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed. 431 122. Maharashtra (INDIA)
☎ 02442-226218, e-Mail : veersawarkarbeed@gmail.com, Website - www.sawarkar.co.in

Out.No : SSMB/2022-2023/ 280-1 Date : 05/12/2022

MEMORANDOM OF UNDERSTANDING

To,
The Director,
TERNA RADIO STATION,
OSMANABAD

1. **Parties**
   The Memorandum of Understanding (herein after referred to as (MOU) is made and entered into by and between the
   a. Department of Political Science
      Swa. SawarkarMahavidyalay,Beed.
      And
   b. TERNA RADIO STATION,
      Osmanabad – 413501
2. **Propose:**
   The Propose Of MOU isto exchange knowledge and ideas dissemination and promotion of information about Social, Political and Cultural Activities.
3. **Activities:**
   - The two institutions agree to :
   - To spread knowledge in the society through this medium.
   - To interact and communicate through this medium.
   - To transfer knowledge through a specific process.
   - To provide real information and create awareness in the society
   - One of the best platforms for sharing knowledge.
     Presentation of invited lectures.
   - To providing programs that analyse social and political issues.
4. **Duration of the agreement :**
   This MOU is valid for 3 years starting on the date that it is signed by the department of Political Science SWA. SAWARKAR MAHAVIDYALAY, BEED AT TERNA RADIO Osmanabad. The MOU can be terminated by either one of the two parties with her written notification 3 months in advance of the anticipated termination. It may also be extended by mutual agreement of the parties involved.
   Any difficulty or controversy that may arise between the collaborating institutions will be amicably resolved by the authorities of both institutions.

- The signatories of both parties permit their faculty and students to attend and participate in lectures, invited talks, the talk on social issues and broadcast students debate on various issues about current affairs.

6. **Signatures:**

In witness whereof, the parties to this MOU through their duly authorised representatives have executed this MOU on the days and dates set out below and certify that they have read understood and agreed to the terms and conditions of this MOU as set forth herein

The effective date of this MOU is 05 Dec 2022

Dr. P. D. Pohekar	Dr. Shridhar S. Aghav	Shri.SanjayMaindarge
Principal	HOD , Political Science	Director
Swa. Sawarkar Mahavidyalaya ,	Swa. Sawarkar Mahavidyalaya ,	RADIO TERNA
Beed.	Beed.	Osmanabad

Swa. Sawarkar Mahavidyalaya Beed B.S.P.S. Ambajogai

TERNA PUBLIC CHARITABLE TRUST'S COE'S RADIO TERNA 90.4FM FMCR/224/1+1

B.S.P.Sanstha

Swa. Sawarkar Mahavidyalaya, Beed

Department of Political Science

MOU Activities With

TERNA RADIO STATION 90.4 FM

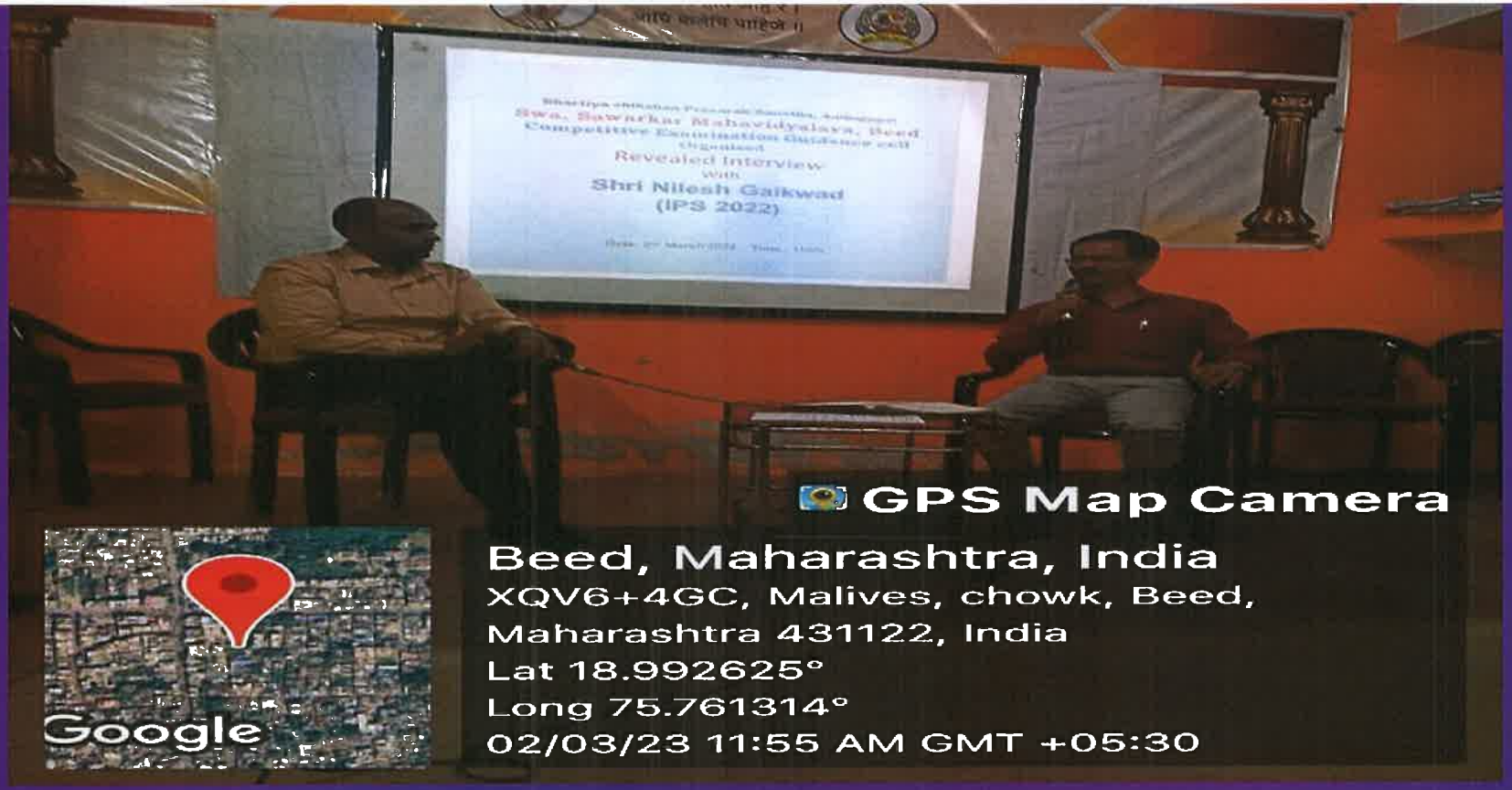
Sr.No.	Activity Name	Speaker	Broadcasting Date	Brief Report	Link Of Broadcasting
1.	जागतिक दिव्यांग दिनानिमित्त प्राचार्या डॉ. प्रीती पोहेकर यांची डॉ.श्रीधर आघाव यांनी घेतलेली मुलाखत.	प्राचार्या डॉ. प्रीती पोहेकर	3-12-2022 & 04-12-2022 6.30 & 9.30 PM	जागतिक दिव्यांग दिनानिमित्त दिव्यांगांकडे पाहण्याचा दृष्टिकोन बदलला पाहिजे तसेच त्यांना न्याय वागणूक मिळाली पाहिजे असा सारांश या मुलाखतीचा होता.	ड्रॉइड फोन साठी https://play.google.com/store/apps/details?id=com.atc.radioterna →□ ऍपल आय फोन साठी https://apps.apple.com/bhus/app/radioterna90-4fm/id1600445774?platform=iphone →□ रेडिओ गार्डन लिंक http://radio.garden/listen/radio-terna-90-4-fm/MzpZd2nQ →□ वेबसाईट लिंक radio.coeosmanabad.ac.in
2.	बोधिसत्व डॉ. बाबासाहेब आंबेडकर यांच्या महापरिनिर्वाण दिनानिमित्त भाषण.	डॉ. राजेंद्र सोनवणे स्वातंत्र्यवीर सावरकर महाविद्यालय, बीड	6-12-2022 & 7-12-2022 6.30 & 9.30 PM	डॉ. बाबासाहेब आंबेडकर यांचे जीवन आणि कार्य भारतीय समाजासाठी भविष्यामध्ये खूप दिशा देणारे आहे असा सारांश या भाषणाचा होता.	अँड्रॉइड फोन साठी https://play.google.com/store/apps/details?id=com.atc.radioterna →□ ऍपल आय फोन साठी https://apps.apple.com/bhus/app/radioterna90-4fm/id1600445774?platform=iphone →□ रेडिओ गार्डन लिंक http://radio.garden/listen/radio-terna-90-4-fm/MzpZd2nQ →□ वेबसाईट लिंक radio.coeosmanabad.ac.in
3.	राष्ट्रमाता जिजाऊ यांच्या जयंतीनिमित्त भाषण.	प्रा.डॉ.वैशाली पाटील, स्वातंत्र्यवीर सावरकर महाविद्यालय, बीड	12-01-2023 10 AM & 9.30 PM	राष्ट्रमाता जिजाऊ यांनी छत्रपती शिवाजी महाराजांची जडणघडण केली त्यामुळेच शिवरायांनी स्वाभिमानी आणि पुरोगामी महाराष्ट्र निर्माण केला. जिजाऊंचे हे कार्य	अँड्रॉइड फोन साठी https://play.google.com/store/apps/details?id=com.atc.radioterna →□ ऍपल आय फोन साठी https://apps.apple.com/bhus/app/radioterna90-4fm/id1600445774?platform=iphone

				अनमोल असे आहे. असा सारांश या भाषणाचा होता.	→□ रेडिओ गार्डन लिंक http://radio.garden/listen/radio-terna-90-4-fm/MzpZd2nQ →□ वेबसाईट लिंक www.radio.coeosmanabad.ac.in →□ फेसबूक लिंक https://m.facebook.com/story.php?story_fbid=pfbid02uamoa9dApHVEha3ycVhN1tJf1pFmzzBrw8YyqubuNrBcwxvLXYKD5H13StMW7iiyl&id=100076353101173&mibextid=Nif5oz
4.	आधान या मराठी चित्रपटाच्या पोस्टरचे अनावरण.	--	07-02-2023	बीड आणि उस्मानाबाद जिल्ह्यातील कलाकारांनी एकत्र येऊन तयार केलेला हा चित्रपट म्हणजे चित्रपट सृष्टी मध्ये ग्रामीण भागातील विद्यार्थ्यांचा सहभाग वाढला पाहिजे हा संदेश देणारा चित्रपट आहे.	
5.	आयपीएस निलेश गायकवाड यांची प्रकट मुलाखत लाईव्ह.	डॉ . श्रीधर आघाव आणि आयपीएस निलेश गायकवाड	07-04-2023 & 08-04-2023 7.30 AM & 8.00 PM	ग्रामीण भागातील विद्यार्थ्यांनी स्पर्धा परीक्षेची तयारी करावी यासाठी मार्गदर्शक ही मुलाखत ठरली. मराठवाड्यातील स्पर्धा परीक्षेचा अभ्यास करणाऱ्या सर्व विद्यार्थ्यांसाठी ही मुलाखत अतिशय महत्त्वाची होती.	अँड्रॉइड फोन साठी https://play.google.com/store/apps/details?id=com.atc.radioterna →□ ऍपल आय फोन साठी https://apps.apple.com/bhus/app/radioterna90-4fm/id1600445774?platform=iphone →□ रेडिओ गार्डन लिंक http://radio.garden/listen/radio-terna-90-4-fm/MzpZd2nQ →□ वेबसाईट लिंक www.radio.coeosmanabad.ac.in इंस्टाग्राम लिंक →□https://www.instagram.com/p/CqsY-h-IrBN/?igshid=YmMyMTA2M2Y=

HOD

Principal

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.



02-03-2023

आयपीएस निलेश गायकवाड यांची प्रकट मुलाखत घेताना डॉ. श्रीधर आघाव.

7-02-2023

Dr.Shridhar Aghav Honored by Shri.Sanjay Maindarge Director Of RADIO TERNA OSMANABAD.

7-02-2023

The Speech Delevered on RADIO TERNA Osmanabad on MATA RAMAI JAYANTI by Dr.Shridhar Aghav.

7-02-2023

The Pster Launching of Mrathi Movie AADHAN at RADIO TERNA Osmanabad.

Mauli Mind Care Clinic

Dr. Mogle S. H.
M.B.B.S., D.P.M.
Adarsh Nagar, BEED-431 122. Phone : 02442-225487

Ref. No. mmcc/collaboration/2007/36 Date : 25.7.2007

Letter of Collaboration

To,

Head,

Department of Psychology,

Swa. Sawarkar Mahavidyalaya,

Beed.

With reference to your letter of intent, this Letter of Collaboration is designed to foster a friendly relationship through mutual cooperation between **Department of Psychology, Swa.Sawarkar Mahavidyalaya, Beed** and **Mauli Mind Care Hospital, Beed.**

This formal Collaboration includes.

- Patient sharing for counseling
- Collaborative Psychological studies/activities
- Instrument sharing

No financial obligations are assumed under this agreement and shall commence.

Dr. Mogle S. H.
M.B.B.S. D.P.M.
Mauli Mind Care Hospital,
Beed

Copy to:- principal

Dept. of Psychology

13

B.S.P.S. Ambajogai

SWA. SAWARKAR MAHAVIDYALYA, BEED

Counselling Center
2022 – 2023

Prof. Joshi S. B.
Head Department of Psychology
Swa. Sawarkar Mahavidayalaya Beed

Principal
Swa. Sawarkar Mahavidyalaya
Beed

माऊली माईन्ड केअर हॉस्पिटल

डॉ.मोगले एस.एच.

एम.बी.बी.एस., डी.पी.एम.(पुणे), एम.ए.(मानसशास्त्र)
मानसोपचार तज्ञ
रजि.नं. 80730
मो.9422240930

संकल्प हॉस्पिटल जवळ, आदर्श नगर, डी.पी.रोड, बीड.
• वेळ : दु.1 ते 4, सायं. 7.30 ते 9 • रविवार बंद

पेशंटचे नांव : _____ दिनांक : _____

पत्ता : _____ वय : _____ वजन : _____

℞

आभार पत्र दिनांक : 31/05/2023

माऊली केअर सेंटर आणि मानसशास्त्र विभाग स्वा सावरकर महाविद्यालय बीड यांच्या दरम्यान झालेल्या सामंजस्य कराराप्रमाणे स्वा सावरकर महाविद्यालय बीड येथील मानसशास्त्र विभाग प्रमुख प्रा. जोशी यांनी वर्ष 2022-2023 दरम्यान 17 रुग्णांना समुपदेशन केले.

सहकार्याबद्दल आपले हार्दिक आभार.

Dr.S.H.Mogle
M.B.B.S.,D.P.M.(Pune)
Mauli Mind Care Hospital,Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Swa. Sawarkar Mahavidyalaya 139 Beed

Counselling Centet
2022 – 2023
Report

Counseling Center is Functioning Science 2002 in College Premises with the aim of Solving Psychological & Social Problems.

Mantel retarded Student IQ = 07

Anxiety = 05

Exam Stress = 09

Carrier Guidance = 15

Phobia = 05

Mobile Addiction = 12

Prof. Joshi S. B.
Head Department of Psychology
Swa. Sawarkar Mahavidayalaya Beed

Principal
Swa. Sawarkar Mahavidyalaya
Beed

2019-20

Swa.Sawarkar Mahavidyalaya 139 Beed

B.S.P.S. Ambajogai

SWA. SAWARKAR MAHAVIDYALYA, BEED

Counselling Center
2019 – 2020

Prof. Joshi S. B.
Head Department of Psychology
Swa. Sawarkar Mahavidayalaya Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

माऊली माईन्ड केअर हॉस्पिटल

डॉ.मोगले एस.एच.
एम.बी.बी.एस., डी.पी.एम.(पुणे), एम.ए.(मानसशास्त्र)
मानसोपचार तज्ञ
रजि.नं. 80730
मो.9422240930

संकल्प हॉस्पिटल जवळ, आदर्श नगर, डी.पी.रोड, बीड.
• वेळ : दु.1 ते 4, सायं. 7.30 ते 9 • रविवार बंद

पेशंटचे नांव : _____ दिनांक : _____

पत्ता : _____ वय : _____ वजन : _____

℞

आभार पत्र

दिनांक : 31/05/2020

माऊली केअर सेंटर आणि मानसशास्त्र विभाग स्वा सावरकर महाविद्यालय बीड यांच्या दरम्यान झालेल्या सामंजस्य कराराप्रमाणे स्वा सावरकर महाविद्यालय बीड येथील मानसशास्त्र विभाग प्रमुख प्रा. जोशी यांनी वर्ष 2019-2020 दरम्यान 12 रुग्णांना समुपदेशन केले.

सहकार्याबद्दल आपले हार्दिक आभार.

Dr.S.H.Mogle
M.B.B.S.,D.P.M.(Pune)
Mauli Mind Care
Hospital,Beed.

अपॉईंटमेंट साठी संपर्क – 02442-225487

*** उपलब्ध सेवा ***

• मेंदुचा आलेख (ई.सी.जी.) • मानसिक आजार • व्यसनमुक्ती (दारू, गांजा, बिडी, तंबाखू) • वैवाहिक व लैंगिक समस्या
• मतिमंद बालकासाठी सल्ला • नैराश्य • उन्माद • झोपेच्या समस्या • दुभंगलेले व्यक्तिमत्व (सीझोफ्रेनीया) • तनाव • डोकेदुखी
• मुलांच्या वर्तणुकीतील बदल • भुतबाधा • जादुटोणा, इ.आजारावर उपचार, सल्ला व समुपदेशन

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Swa.Sawarkar Mahavidyalaya 139 Beed

Counselling Centet
2019 – 2020
Report

Counseling Center is Functioning Science 2002 in College Premises with the aim of Solving Psychological & Social Problems.

Mantel retarded Student IQ = 08
Anxiety = 10
Exam Stress = 12
Carrier Guidance = 06
Phobia = 06

Prof. Joshi S. B.
Head Department of Psychology
Swa. Sawarkar Mahavidayalaya Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

2018-19 (10)

B.S.P.S. Ambajogai

SWA. SAWARKAR MAHAVIDYALYA, BEED

Counselling Center
2018 – 2019

Prof. Joshi S. B.
Head Department of Psychology
Swa. Sawarkar Mahavidayalaya Beed

माऊली माईन्ड केअर हॉस्पिटल

डॉ.मोगले एस.एच.

एम.बी.बी.एस., डी.पी.एम.(पुणे), एम.ए.(मानसशास्त्र)

मानसोपचार तज्ञ

रजि.नं. 80730

मो.9422240930

संकल्प हॉस्पिटल जवळ, आदर्श नगर, डी.पी.रोड, बीड.

• वेळ : दु.1 ते 4, सायं. 7.30 ते 9 • रविवार बंद

पेशंटचे नांव : _____ दिनांक : _____

पत्ता : _____ वय : _____ वजन : _____

℞

आभार पत्र दिनांक : 31/05/2019

माऊली केअर सेंटर आणि मानसशास्त्र विभाग स्वा सावरकर महाविद्यालय बीड यांच्या दरम्यान झालेल्या सामंजस्य कराराप्रमाणे स्वा सावरकर महाविद्यालय बीड येथील मानसशास्त्र विभाग प्रमुख प्रा. जोशी यांनी वर्ष 2018-2019 दरम्यान 07 रुग्णांना समुपदेशन केले.

सहकार्याबद्दल आपले हार्दिक आभार.

Dr.S.H.Mogle
M.B.B.S.,D.P.M.(Pune)
Mauli Mind Care
Hospital,Beed.

अपॉईंटमेंट साठी संपर्क - 02442-225487

*** उपलब्ध सेवा ***

• मेंदुचा आलेख (ई.सी.जी.) • मानसिक आजार • व्यसनमुक्ती (दारू, गांजा, बिडी, तंबाखू) • वैवाहिक व लैंगिक समस्या • मतिमंद बालकासाठी सल्ला • नैराश्य • उन्माद • झोपेच्या समस्या • दुंभलेले व्यक्तिमत्व (सीझोफ्रेनीया) • तनाव • डोकेदुखी • मुलांच्या वर्तणुकीतील बदल • भुतबाधा • जादुटोणा, इ.आजारावर उपचार, सल्ला व समुपदेशन

Swa.Sawarkar Mahavidyalaya Beed B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Swa.Sawarkar Mahavidyalaya 139 Beed

Counselling Centet
2018 – 2019
Report

Counseling Center is Functioning Science 2002 in College Premises with the aim of Solving Psychological & Social Problems.

Mantel retarded Student IQ = 10

Anxiety = 09

Exam Stress = 09

Carrier Guidance = 04

Prof. Joshi S. B.
Head Department of Psychology
Swa. Sawarkar Mahavidayalaya Beed

Swa.Sawarkar Mahavidyalaya B.S.P.S Ambajogai Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

2021-22

(12)

केल्यानें होत आहे रे । आधीं केलेंची पाहिजे ।।
भारतीय शिक्षण प्रसारक संस्था, अंबाजोगाई संचलित
श्री सिध्देश्वर महाविद्यालय, माजलगाव
ता.माजलगाव जि.बीड ४३१ १३१ (महाराष्ट्र)
(कला, विज्ञान व वाणिज्य)
नॅक मुल्यांकन दर्जा ' बी '
डॉ.महेश प्र. देशमुख
(एम.ए. पीएच.डी.)
कार्यालय: (०२४४३) २३५४७५, २३५९०१ फॅक्स: २३५४७५
Website: www.siddheshwarcollege.com
E-mail: siddheshwar.college@gmail.com

Swa. Sawarkar Mahavidyalaya, Beed B.S.P.S. Ambajogai

SSMM/2021-22/Hindi/4085

Date - 11/10/2021

Memorandum of Understanding

Between

B.S.P's,

Shri Siddheshwer Mahavidyalaya, Majalgaon

And

B.S.P's,

Swa. Sawarkar Mahavidyalaya, Beed

This Memorandum of Understanding (MOU) sets for the terms and understanding between the **Shri Siddheshwer Mahavidyalaya, Majalgaon** and the **Swa. Sawarkar Mahavidyalaya, Beed** , in the area of Research activities, curriculum designing, visiting faculty, Internal Quality Assurance Cell (IQAC).

Background

Collaborative works between academic institutes have become a key of success in educational efforts. It plays vital role in research and educational fields. It encourages towards excellent research working attitude.

Purpose

The general objective of this Memorandum of Understanding (MOU) is to encourage and facilitate the development of collaborative and mutually beneficial research and educational programs which serve to enhance the research development and intellectual life on both campuses, and to increase contribution in research and educational fields. Thus, **Shri Siddheshwer Mahavidyalaya,**

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Majalgaon, and **Swa. Sawarkar Mahavidyalaya, Beed,** have agreed that in support of their mutual interests in the field of education and research.

The above goals will be accomplished by undertaking the following activities:

By providing help in the area of

1) Research activities
2) IQAC
3) Curriculum designing
4) Visiting faculty

Funding

This MOU is not a commitment of funds.

Duration

This MOU is at-will and may be modified by mutual consent of authorized officials from **Shri Siddheshwer Mahavidyalaya, Majalgaon,** and **Swa. Sawarkar Mahavidyalaya, Beed,**

This agreement will take effect from the date of its signing by the authorized officials from Principal, **Shri Siddheshwer Mahavidyalaya, Majalgaon,**and Principal, **Swa. Sawarkar Mahavidyalaya, Beed,** And shall be valid for **Five (05) years** from that date of signing, and will remain in effect until modified or terminated by partners through mutual consent.

Principal
Shri Siddheshwar Mahavidyalaya
Majalgaon Dist.Beed

Shri Siddheshwer Mahavidyalaya, Majalgaon

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Swa. Sawarkar Mahavidyalaya, Beed,

Shri Y. R. Mulye
Assistant Professor & Head,
Department Of Hindi,
Shri Siddheshwar Mahavidyalaya
Majalgaon,Dist.Beed (M S 431131

Witness-Head of the Department (HINDI.)

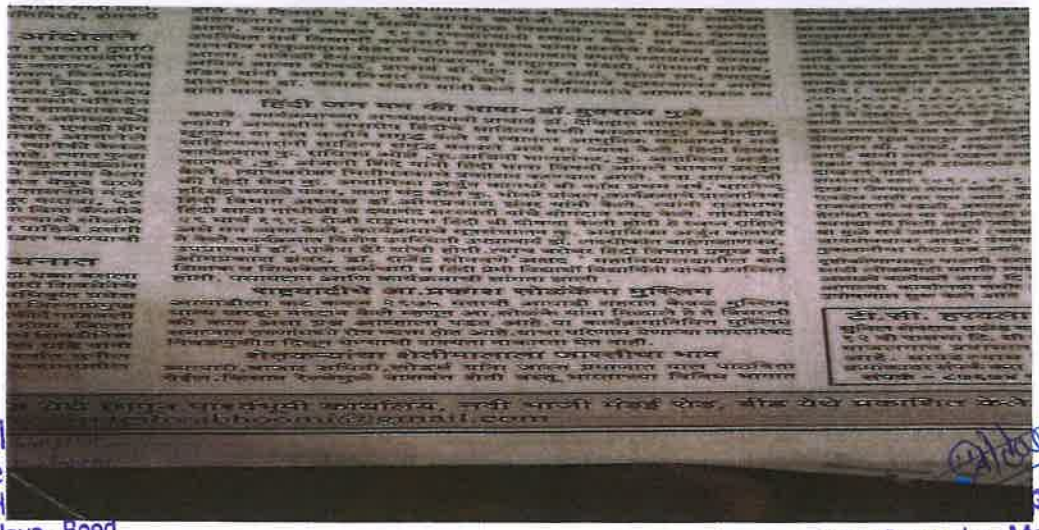
Dr.Omprakash Bansilal Zanwar
Research Guide, Associate Professor
& Head Dept. of Hindi
Swa.Sawarkar Mahavidyalaya, Beed
Maharashtra-431122. Cell-9226490032

Witness-Head of the Department (HINDI.)

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Dept. of Hindi 2022-23 (14)

14/09/22 को सिद्धेश्वर महाविद्यालय के हिन्दी विभाग अध्यक्ष डॉ युवराज मुळीये



Principa
Shri Siddheshwar M
Majalgaon, Dist.Be

Prakash Bansilal
Research Guide, Associate
& Head Dept. of H
Swa.Sawarkar Mahavidyalaya, Beed
Maharashtra-431122. Cell-9226490032

Swa.Sawarkar Mahavidyalaya
Beed.

2020-23

14/09/22को सिद्धेश्वर महाविद्यालय के हिन्दी विभाग अध्यक्ष डॉ युवराज मुळीये प्राचार्य नागरगोजे आदि के करकमलोद्धारा वाल पेपर प्रकाशन

Principal
Shri Siddheshwar Mahavidyalaya
...aon, Dist.Beed 431 131

Dr.Omprakash Bansilal Z...
...esearch Guide, Associate P...
& Head Dept. of Hin...
Swa.Sawarkar Mahavidyalay...
Maharashtra-431122. Cell-9226490032

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Dept. of Hindi
2022-23

(15)

Swa. Sawarkar Mahavidyalaya, Beed
B.S.P.S. Ambajogai

दिनांक 15 सितम्बर 2022 हिंदी दिवस समारोह में सिद्धेश्वर महाविद्यालय माजलगांव में डॉ.ओमप्रकाश झंवर हिन्दी विभाग प्रमुख स्वा.सावरकर महाविद्यालय बीड मुख्य अतिथि के रूप में उपस्थित

मराठवाडा सार्थ

आंतरराष्ट्रीय स्तरावर हिंदी भाषेला महत्त्वाचे स्थान-प्रा.डॉ.ओमप्रकाश झंवर

माजलगाव / प्रतिनिधी

आंतरराष्ट्रीय स्तरावर हिंदी भाषेला महत्त्वाचे स्थान प्राप्त होत असल्याचे प्रतिपादन स्वातंत्र्यवीर सावरकर महाविद्यालय बीड येथील हिंदी विभाग प्रमुख डॉ.ओमप्रकाश झंवर यांनी केले. सिद्धेश्वर महाविद्यालयात हिंदी विभाग आयोजित हिंदी ...(पान ४ वर)

...(पान ४ वर)

दिवस समारोह कार्यक्रमात प्रमुख पाहुणे म्हणून ते बोलत होते. अध्यक्षस्थानी महाविद्यालयाचे प्राचार्य डॉ.महेश देशमुख हे तर उपप्राचार्य गजानन होंडा, प्रा. लक्ष्मीकांत सोळंके, आय.क्यु.ए.सी. समन्वयक डॉ.विनायक देशमुख, हिंदी विभागप्रमुख डॉ.युवराज मुळये, डॉ.गंगाधर उम्मवार यांची उपस्थिती होती. पुढे बोलताना डॉ.ओमप्रकाश झंवर म्हणाले की, स्वामी दयानंद सरस्वती यांनी हिंदी भाषेला विकसित करण्यासाठी खूप मोठे परिश्रम घेतले होते. जगामध्ये हिंदी भाषेचे महत्त्व वाढावे यासाठी त्यांनी व महात्मा गांधी यांनी देखील अथक परिश्रम घेतल्याचे त्यांनी सांगितले. अध्यक्षीय समारोप करताना महाविद्यालयाचे प्राचार्य डॉ. महेश देशमुख म्हणाले की, आजच्या काळामध्ये मातृभाषेतून शिक्षण ही आवश्यक बाब बनलेली आहे.

या कार्यक्रमाचे प्रास्ताविक हिंदी विभाग प्रमुख डॉ.युवराज मुळये यांनी केले. तसेच वर्गामध्ये हिंदी दिनानिमित्त वेगवेगळ्या स्पर्धांचे आयोजन केले होते त्या स्पर्धेमध्ये देखील कु.शकुंतला वानखेडे, कु.गौतमी ढगे, कु.धनश्री जंगले, कु.कोमल धारक, कु.मयुरी आलझेंडे, कु.नर्गिस शेख, कु.आकांक्षा आलझेंडे, कु. अशा झगडे, कु.समरीन शेख या विद्यार्थिनीस बक्षीस देऊन गौरविण्यात आले. याप्रसंगी कु.अंजली खळगे चि.वैभव पांढरे, चि.दत्ता राठोड यांनी आपले मनोगत व्यक्त केली. कार्यक्रमाच्या यशस्वीतेसाठी हिंदी विभागातील डॉ.राजाराम जाधव, प्रा.परमेश्वर पवार यांनी विशेष परिश्रम घेतले. कार्यक्रमाचे सूत्रसंचालन कु.अंजली रासवे हिने केले तर आभार कु.राधिका उरणकर हिने मानले.

Dr.Omprakash Bansilal Zanwar
Research Guide, Associate Professor
& Head Dept. of Hindi
Swa.Sawarkar Mahavidyalaya, Beed

Principal
Shri Siddheshwar Mahavidyalaya
Majalgaon, Dist.Beed 431 131

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

2022-23

हिंदी गेस्ट लेक्चर सिद्धेश्वर महाविद्यालय माजलगांव

दिनांक 8 मार्च 2023

Dr. Omprakash Bansilal Zanwar
Research Guide, Associate Professor
& Head Dept. of Hindi
Swa.Sawarkar Mahavidyalaya, Beed
Maharashtra-431122. Cell-9226490032

Principal
Shri Siddheshwar Mahavidyalaya
Majalgaon, Dist.Beed 431 131

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Dept. of Hindi 2021-22

(6)

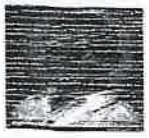
Swa. Sawarkar Mahavidyalaya, Beed
Ambajogai

दि.15/10/2021 स्वा. सावरकर महाविद्यालय गेस्ट अतिथि के रूप में डॉ.गंगाधर उष्मवार डॉ. युवराज मूळये हिंदी विभाग सिद्धेश्वर महाविद्यालय माजलगांव

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Dr.Omprakash Bansilal Zanwar
Research Guide, Associate Professor
& Head Dept. of Hindi
Swa.Sawarkar Mahavidyalaya, Beed
Maharashtra-431122. Cell-9[illegible]

Principal
Shri Siddheshwar Mahavidyalaya
Majalgaon, Dist.Beed



B.S.P.S. Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Memorandum of Understanding (MOU) and Interlinkage of Library

Library

Report

Memorandum of Understanding (MOU) and interlinkages and Inter Library Borrowing Facility of Library is with done with various organizations for resource exchanges.

A. Shri Sidhheshwar Arts,Science and Commerce College, Majalgaon
B. Kholeshwar Mahavidyalay, Ambajogai
C. Milliya Arts, Science and Management Science College, Beed
D. Dr. Hedgewar Sarvajanik Vachanalay, Beed
E. Pradnyachakshu Nivasi Vidyalay, Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

B. Kholeshwar Mahavidyalay, Ambajogai

भारतीय शिक्षण प्रसारक संस्थेचे

खोलेश्वर महाविद्यालय, अंबाजोगाई

ता.अंबाजोगाई ४३१५१७ जि. बीड

दूरध्वनी : (०२४४६) २४७०१८ (का.)
(०२४४६) २४७१०८ (नि.)
फॅक्स : (०२४४६) २४९५१२ (का.)

डॉ. अ. द. पत्की
प्राचार्य

ग्रंथा.2012-13/500 दि. 04/07 /2013

मा.प्राचार्य,
स्वा.सावरकर महाविद्यालय,
बीड.

विषय :– आपल्या महाविद्याल्याच्या ग्रंथालयाची ग्रंथालय अंतर्गत देवघेव सवलत मिळण्या बाबत. (Inter library Borrowing facility)

महोदय,

आपल्या वरिष्ठ महाविद्यालयाच्या ग्रंथालयाची ग्रंथ देवाण–घेवाणाची सोय आमच्या महाविद्यालयातील गरजू विद्यार्थी व प्राध्यापकांना आवश्यतेनुसार उपलब्ध करून द्यावी.

ही विनंती.

आपला

प्राचार्य
खोलेश्वर महाविद्यालय
अंबाजोगाई

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Swa.Sawarkar Mahavidyalaya,Beed.
Inword No. 112 Dt. 1 / 7 /2013
Clerk

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai

Swa.Sawarkar Mahavidyalaya,Beed.
Inword No. :-
Date :- 112 / July /2013

Bhartiya Shikshan Prasarak Sanstha Ambajogai

Swa. Sawarkar Mahavidyalaya

Beed

BT NO. WISE BOOK ISSUE HISTORY

Session : 2023

FROM DATE : 22/04/2023 TO DATE : 23/04/2023

B.T. No : T023 Name : DR ANUJA ANANTRAO KASTIKAR

Branch : B.A.

ACC. NO	TITLE	AUTHOR	ISSUE DATE DUE DATE	RETURN DT	DUE DAYS	TOTAL LATE FINE	@RATE
8,143 GEN	पवित्र महाराष्ट्र,5 श्री क्षेत्र पौठण	रा.चिं. ढेरे	22/04/2023 22/04/2024				0
8,139 GEN	पवित्र महाराष्ट्र,1 श्रीक्षेत्र भीडा नागनाथ	रा.चिं. ढेरे	22/04/2023 22/04/2024				0
17,038 GEN	संज तिथी पाचटाशी	दीपा क्षीरसागर	22/04/2023 22/04/2024				0
14,829 GEN	हैदराबादचा स्वातंत्र्यसंग्राम आणि बीड जिल्हा	सतीश साळुंके	22/04/2023 22/04/2024				0
12,004 GEN	श्री एकनाथ वाङ्मय आणि कार्य	नरहर रघुनाथ फाटक	22/04/2023 22/04/2024				0
11,008 GEN	सांस्कृतिक महाराष्ट्र भाग.1 1960 ते 2010	मधु मंगेश कर्णिक (संपा)	22/04/2023 22/04/2024				0
4,570 GEN	हिन्दी साहित्य का इतिहास	आचार्य रामचन्द्र शुक्ल	22/04/2023 22/04/2024				0
15,213 GEN	गोदा खोरे: इतिहास आणि संस्कृती	-	22/04/2023 22/04/2024				0
16,010 GEN	प्रयोद महाजन: दूरदर्शी नेतृत्व	-	22/04/2023 22/04/2024				0
4,317 GEN	एका जनार्दनी	वि.रा.करंदीकर	22/04/2023 22/04/2024				0
8,141 GEN	पवित्र महाराष्ट्र,3 श्री क्षेत्र परशराम	रा.चिं. ढेरे	22/04/2023 22/04/2024				0
11,421 GEN	श्रीतळजाभवानी	रा.चिं. ढेरे	22/04/2023 22/04/2024				0
14,913 GEN	मराठवाड्याचा इतिहास	अनिल कठारे	22/04/2023 22/04/2024				0
14,407 GEN	ग्रामीण कादंबरी : मराठवाडी गोलांचे स्वरूप	विठ्ठल हरिभाऊ जंगाले	22/04/2023 22/04/2024				0
7,995 GEN	पू.रा.गो.तथा बाबासाहेब परांजपे : व्यक्तिमत्व व कार्य	गुलाब काटे	22/04/2023 22/04/2024				0
15,467 GEN	गोदावरी खोरे: पाणी वाटप	पा. रा. जाधव	22/04/2023 22/04/2024				0
7,065 GEN	हैद्राबाद मुक्तिसंग्राम का इतिहास	चंद्रशेखर सोनांडे	22/04/2023 22/04/2024				0

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Bhartiya Shikshan Prasarak Sanstha Ambejogai

Swa. Sawarkar Mahavidyalaya

Beed

BT NO. WISE BOOK ISSUE HISTORY

Session : 2023

FROM DATE : 22/04/2023 TO DATE : 23/04/2023

B.T. No : T023 **Name :** DR ANUJA ANANTRAO KASTIKAR

Branch : B.A.

ACC. NO	TITLE	AUTHOR	ISSUE DATE DUE DATE	RETURN DT	DUE DAYS	TOTAL LATE FINE	@RATE
11,286 GEN	मराठवाड्यातील रुपानेखिका	एकनाथ आवूज	22/04/2023 22/04/2024				0
7,563 GEN	हैद्राबाद मुक्ती संग्राम व्यक्तीविषे	मंगला सुरेश वोरकर	22/04/2023 22/04/2024				0
16,442 GEN	उस्मानाबाद ची कथा 1960- 2014	-	22/04/2023 22/04/2024				0
8,146 GEN	पवित्र महाराष्ट्र,8 श्री क्षेत्र नरसोबाची वाडी	रा.चि. ढेरे	22/04/2023 22/04/2024				0
11,304 GEN	हैद्राबाद मुक्तिसंग्राम आणि गोविंदभाई श्रॉफ	राम कदम	22/04/2023 22/04/2024				0
9,539 GEN	मराठवाड्यातील शिक्षण: एकविसाव्या शतकातील आव्हाने	श्रीधर वळवंत गोगटे	22/04/2023 22/04/2024				0
12,110 GEN	इतिहासाचे साक्षीदार	मुकुंद कुळे	22/04/2023 22/04/2024				0
13,411 GEN	स्वामी रामानंद तीर्थ यांचा शिक्षणविचार	प्रकाश पैदकर	22/04/2023 22/04/2024				0
9,596 GEN	संत भगवानबाबा जीवन व कार्य	के.टी.तांदळे	22/04/2023 22/04/2024				0
11,282 GEN	मराठवाड्यातील दलित कथा	एकनाथ आवूज	22/04/2023 22/04/2024				0
14,840 GEN	हैद्राबाद मुक्तिलढ्यात उदगीर तालुक्यातील स्वातंत्र्य सैनिकांचे योगदान	नामदेव खंडगावे	22/04/2023 22/04/2024				0
13,426 GEN	नागनाथ कोत्तापल्ले: पंचातल्या तमाला फुटती असंख्य पंख	संभाजी पवपे	22/04/2023 22/04/2024				0
13,409 GEN	हैदराबाद मुक्तिसंग्रामातील पूर्ण वेळ कार्यकर्ते	-	22/04/2023 22/04/2024				0
16,381 GEN	क्रांतियोगी नानाजी देशमुख	-	22/04/2023 22/04/2024				0
15,697 GEN	मराठवाडा गती-प्रगती	-	22/04/2023 22/04/2024				0
6,335 GEN	जावदीप अभंग विचरण	बाबा पद्मनंजि शिंदे पेपेकर	22/04/2023 22/04/2024				0
7,994	राष्ट्रीय सेवायोजना	धनंजय पाने (संपा)	22/04/2023				0

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Bhartiya Shikshan Prasarak Sanstha Ambajogai

Swa. Sawarkar Mahavidyalaya

Beed

BT NO. WISE BOOK ISSUE HISTORY Session : 2023

FROM DATE : 22/04/2023 TO DATE : 23/04/2023

B.T. No : T023 Name : DR ANUJA ANANTRAO KASTIKAR

Branch : B.A.

ACC. NO	TITLE	AUTHOR	ISSUE DATE DUE DATE	RETURN DT	DUE DAYS	TOTAL LATE FINE	@RATE
7,528 GEN	संत मन्मथस्वामी गाथा	वामनराव कोरे (संपा)	22/04/2023 22/04/2024				0
13,513 GEN	स्वातंत्र्य संग्राम: बीड जिल्ह्याचे योगदान	बाजीराव बापुराव वाकुडे	22/04/2023 22/04/2024				0
11,387 GEN	संत वामनभाऊ महाराज: जीवन व कार्य	के.टी.सांवळे	22/04/2023 22/04/2024				0
5,841 GEN	मराठवाड्यातील दलितांचे लोकसाहित्य	परशुराम गिमेकर	22/04/2023 22/04/2024				0
16039 Gen	दास्तोयेवस्की पत्नी	[illegible]	22/4/2023				
16000	[illegible]		22/4/2023				

Total : 38 + Total Fine :

Total Books - 40

LIBRARIAN
SWA.SAWARKAR MAHAVIDYALAYA
BEED.

Return to the librarian Swa. Sawarkar Mahavidyalaya Beed. on 25/04/23

25/04/2023

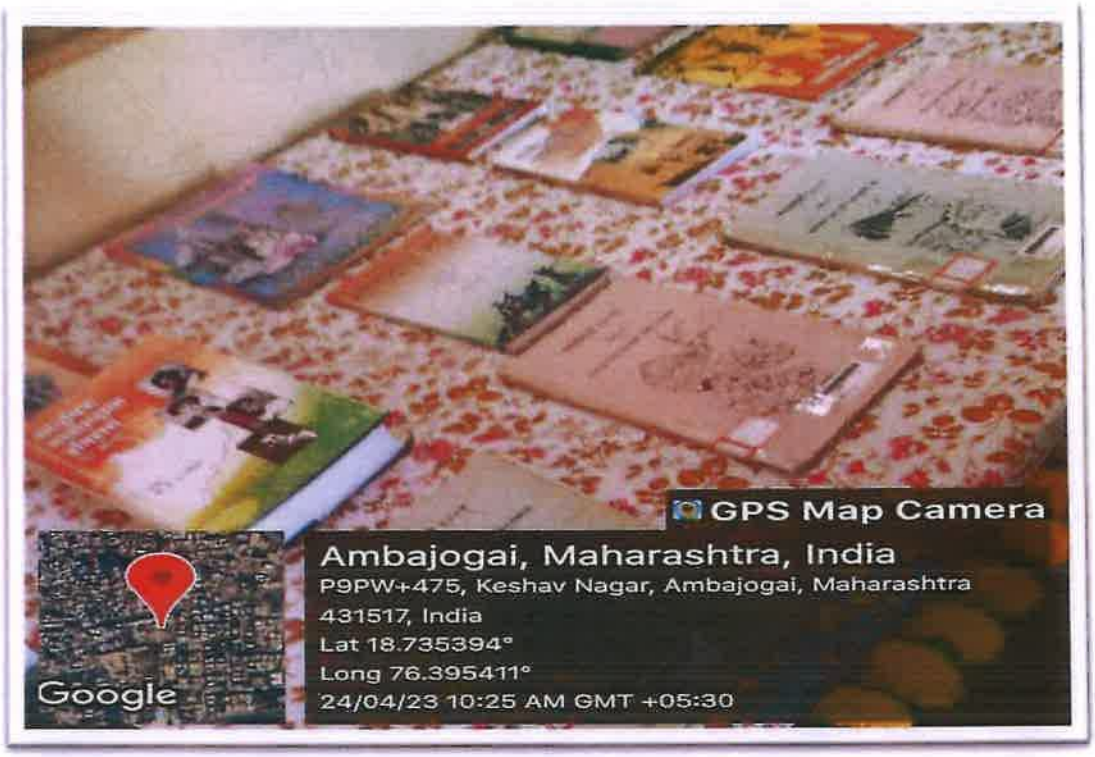
खोलेश्वर महाविद्यालय अंबाजोगाई

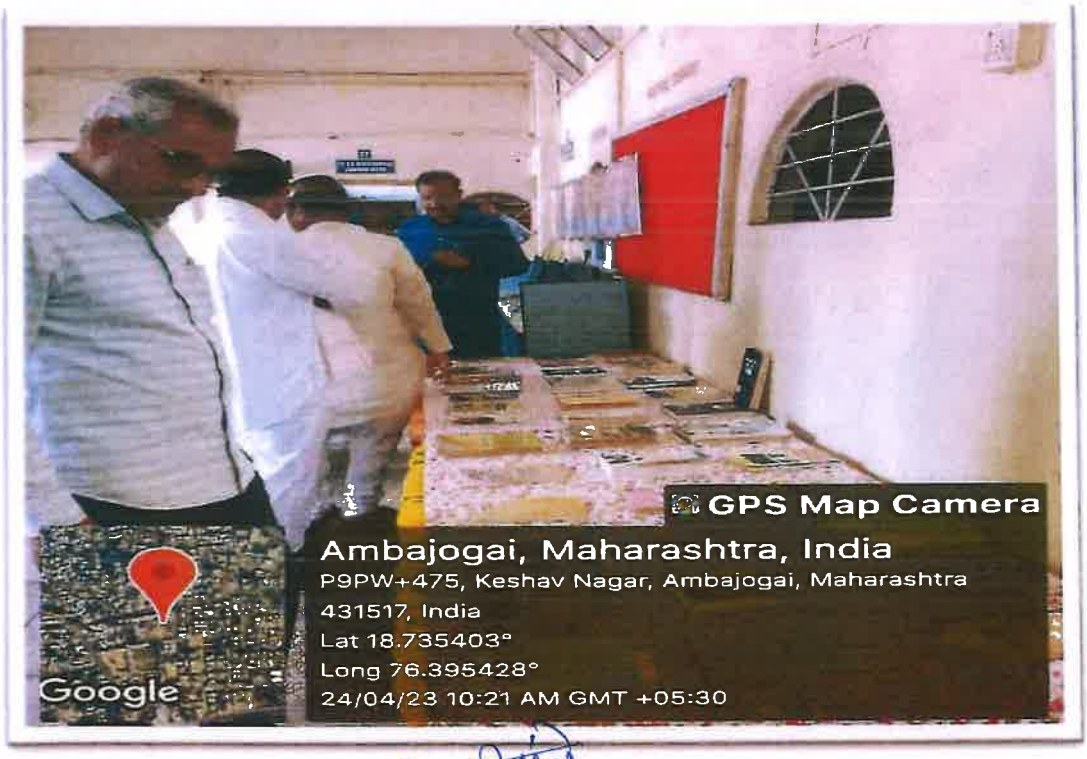
Principal
Swa.Sawarkar Mahavidyalaya
Beed

ग्रंथपाल
खोलेश्वर महाविद्यालय
अंबाजोगाई

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Photographs of exhibition on 24 April 2023 organized by Kholeshwar Mahavidyalay, Ambajogai

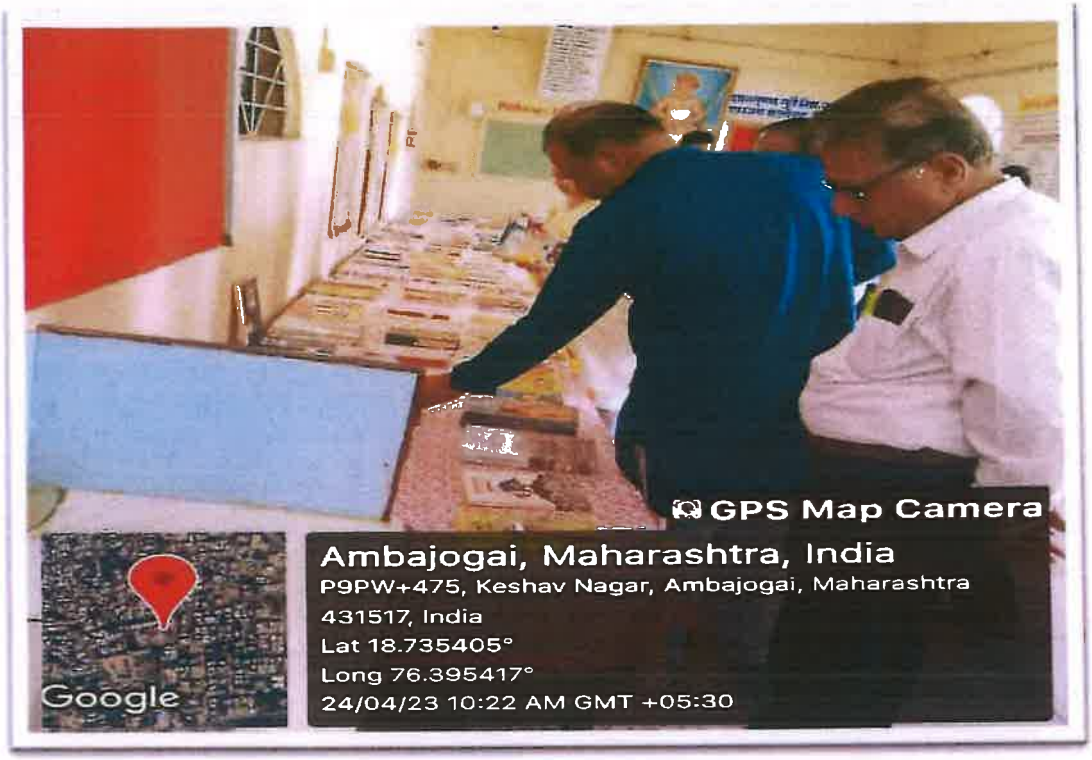


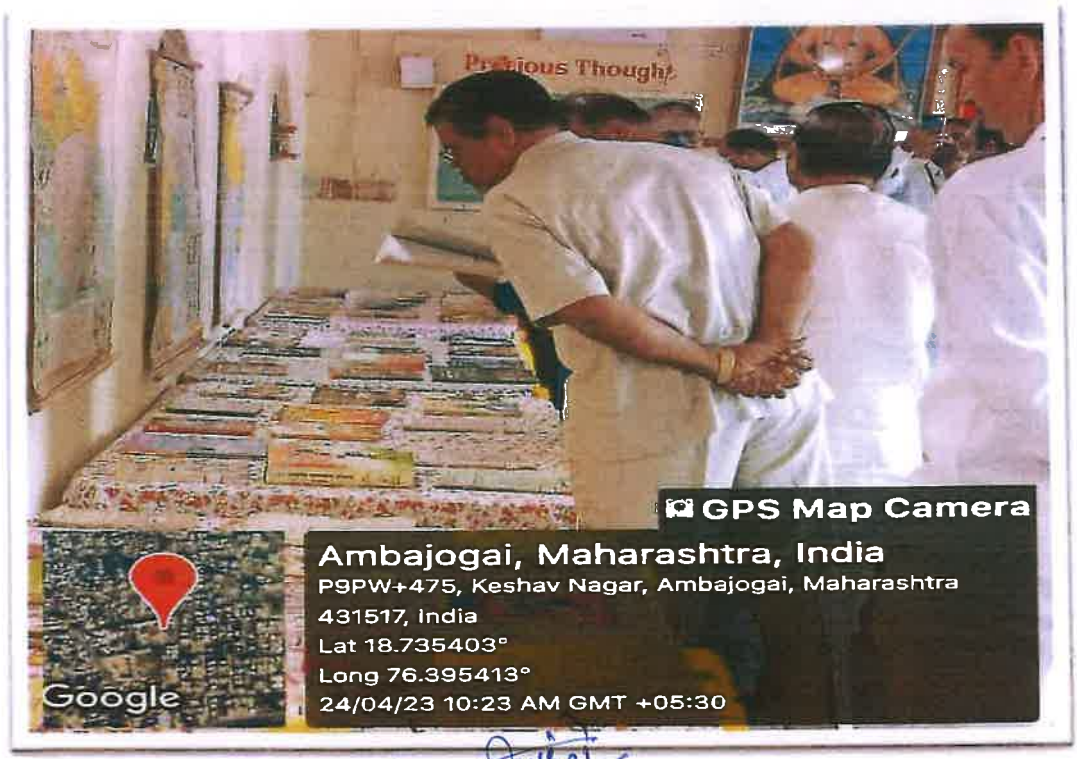


Swa. Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

खालेश्वर महाविद्यालय
अंबाजोगाई

Principal
Swa. Sawarkar Mahavidyalaya
Beed

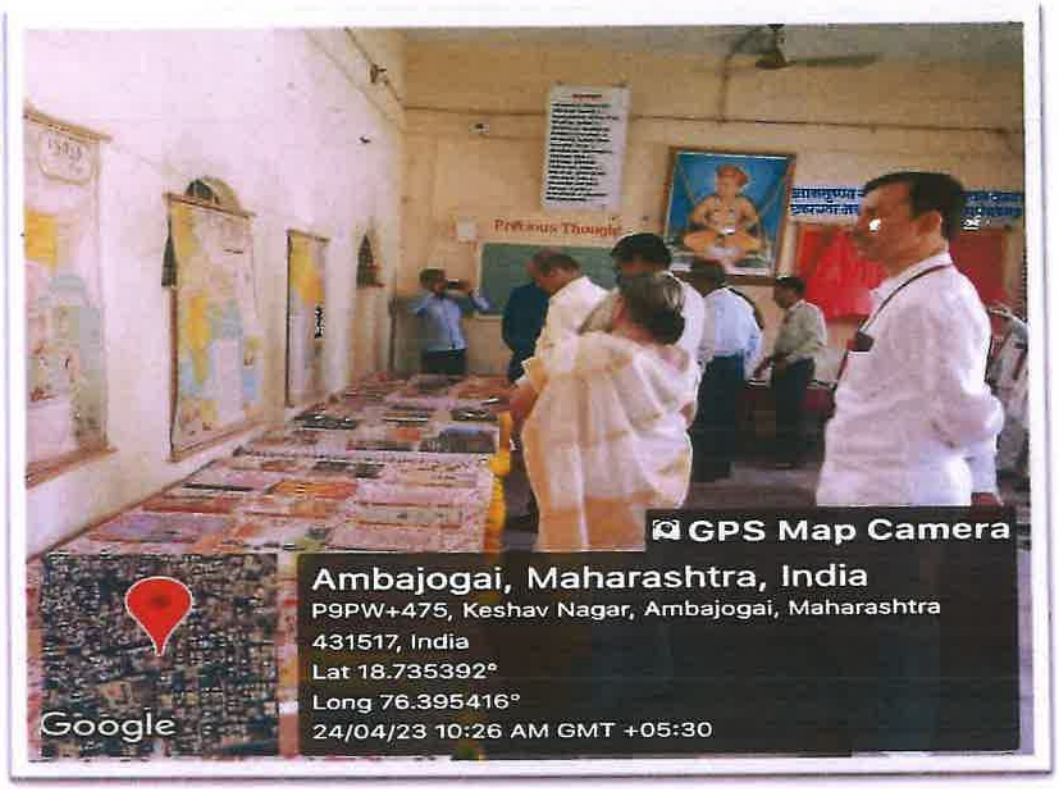


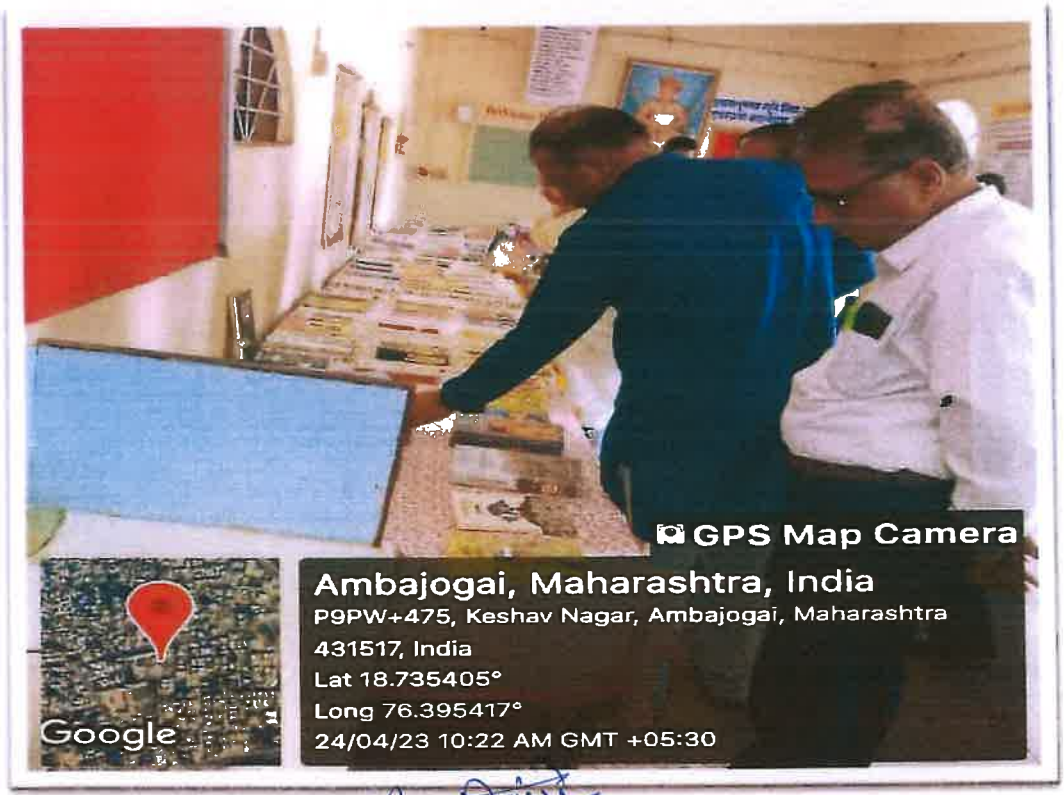


Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

ग्रंथपाल
खालेश्वर महाविद्यालय
अंबाजोगाई

Principal
Swa.Sawarkar Mahavidyalaya
Beed





Swa. Sawarkar Mahavidyalaya B.S.P.S. Ambajogai

खोलेश्वर महाविद्यालय
अंबाजोगाई

Principal
Swa.Sawarkar Mahavidyalaya
Beed

भारतीय शिक्षण प्रसारक संस्थेचे
खोलेश्वर महाविद्यालय, अंबाजोगाई
(कला, वाणिज्य व विज्ञान)
ता. अंबाजोगाई - ४३१५१७, जि. बीड

दूरध्वनी : (का) ०२४४६ - २४७०१८, (नि) ०२४४६ - २४७१०८, फॅक्स : (का) ०२४४६ - २४९५९२
Web : www.kholeshwarmahavidyalaya.org.in • e-mail : principalkma@gmail.com

Dt. 25/04/2023

To

The Librarian

Swa.Sawarkar Mahavidyalaya Beed

Dist.Beed

Subject: To accept the books under Inter Library Loan

R/Madam

As per our two colleges binding under Inter Library Loan (ILL) Scheme we have borrowed 40 books as per our readers demand .

We are sending these 40 books back with thanks please accept these books.

Thanks !!!

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Yours faithfully

25/04/23
खोलेश्वर महाविद्यालय
अंबाजोगाई

खोलेश्वर महाविद्यालय
अंबाजोगाई

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed

B.S.P. Sanstha Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Book Issue Register

(Junior / Senior)

Name: Kholeshwar Mahavidyalaya, Ambajogai Mob. No.: _____

Subject: _____

Sr.No.	Title	Author	Date of Issue	Lect. Sign.	Date of Return	Librarian's Sign.	Remarks
1	Mathematics	A. Rathi	26/7/18		20.8.18		
2	—"—	—"—	—"—		"		
3	Mathematics	H.S. Bhosale	—"—		"		
4	—"—	—"—	—"—		"		

Principal
Swa. Sawarkar Mahavidyalaya
Beed

प्राचार्य
कोलेश्वर महाविद्यालय,
अंबाजोगाई

Swa. Sawarkar Mahavidyalaya Beed B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya
Beed

A. Shri Sidhheshwar Arts,Science and Commerce College, Majalgaon

Shri Siddheshwar Mahavidyalaya
Majalgaon Dist.Beed 431 131 (Maharashtra)
(Arts,Science & Commerce)
NAAC Accreditation Grade - 'B'
Principal
Professor Suhas R Morale
M A LL B Ph D
Mob. : 9422242711
Office : (02443) 235475,235901
E-mail : siddheshwar.college@gmail.com
Website : www.siddheshwarcollege.com

Memorandum of Understanding

Date:-03/03/2023

Between

B.S.P's,

Shri Siddheshwer Arts, Science and Commerce College, Majalgaon

And

B.S.P'.S.

Swa.Sawarkar Arts,Science and Commerce college,Beed

This Memorandum of Understanding (MOU) sets for the terms and understanding between the Shri Siddheshwer Arts, Science and Commerce College, Majalgaon and the Swa.Sawarkar Arts Science and Commerce College, Beed in the area of Research activities, curriculum designing, visiting faculty, Internal Quality Assurance Cell (IQAC).

Background

Collaborative works between academic institutes have become a key of success in educational efforts. It plays vital role in research and educational fields. It encourages towards excellent research working attitude.

Purpose

The general objective of this Memorandum of Understanding (MOU) is to encourage and facilitate the development of collaborative and mutually beneficial research and educational programs which serve to enhance the research development and intellectual life on both campuses, and to increase contribution in research and educational fields. Thus, Shri

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai * Beed *

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Siddheshwer Arts, Science and Commerce College, and Swa.Suwarkar Arts Science and Commerce College, have agreed that in support of their mutual interests in the field of education and research.

The above goals will be accomplished by undertaking the following activities:

By providing help in the area of

1) Research activities
2) IQAC
3) Exchange of reading material
4) Academic expert talk (Guest Lecture)

Funding

This MOU is not a commitment of funds.

Duration

This MOU is at-will and may be modified by mutual consent of authorized officials from **Shri Siddheshwer Arts, Science and Commerce College, Majalgaon and Swa.Sawarkar Arts Science and Commerce College, Beed.**

This agreement will take effect from the date of its signing by the authorized officials from Principal, **Shri Siddheshwer Arts, Science and Commerce College, Majalgaon** and Principal, **Swa.Sawarkar Arts Science and Commerce College, Beed** And shall be valid for **Five (05) years** from that date of signing, and will remain in effect until modified or terminated by partners through mutual consent.

Principal
Shri.Siddheshwar College
Majalgaon Dist.Beed.

Seal

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Shri Siddheshwer Arts, Science and Commerce College, Majalgaon

Swa.Sawarkar Arts Science and Commerce College, Beed.

LIBRARIAN
Siddheshwar Mahavidyalaya
Majalgaon 431 131

Librarian
Swa.Sawarkar Mahavidyalaya
Beed

Shri.Siddheshwar Arts,Science and Commerce College Majalgaon

Swa.Sawarkar Arts,Science and Commerce College Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Swa. Sawarkar Mahavidyalaya ★ Beed
B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

B.S.P.S. Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Memorandum of Understanding (MOU) and Interlinkage of Library

Library

Report

Memorandum of Understanding (MOU) and interlinkages and Inter Library Borrowing Facility of Library is with done with various organizations for resource exchanges.

A. Shri Sidhheshwar Arts,Science and Commerce College, Majalgaon
B. Kholeshwar Mahavidyalay, Ambajogai
C. Milliya Arts, Science and Management Science College, Beed
D. Dr. Hedgewar Sarvajanik Vachanalay, Beed
E. Pradnyachakshu Nivasi Vidyalay, Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

B.S.P. Sanstha Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Book Issue Register

(Junior / Senior)

Name : सी. सिद्धेश्वर महाविद्यालय, माजलगाव
सी. माजलगाव जि. बीड.

Mob. No. : _____

Subject : _____

Acc.No.	Title	Author	Date of Issue	Lect. Sign.	Date of Return	Librarian's Sign.	Remarks
7089	समग्र गुरुजी	भारतीय विद्यार्थी	12/4/23		22/4/23		
1744	जीवनानंद दास	चिदानंद दास गुप्ता	12/4/23		22/4/23		
9346	Life sciences manual	Sunil Kumar	12/4/23		22/4/23		
11760	Conceptual Physics	Paul G. Hewitt	22/4/23		9/5/23		
9831	University Physics - I	F. C. Wood	22/4/23		9/5/23		
7334	Modern Physics	Arthur Beiser	22/4/23		9/5/23		

for LIBRARIAN
Siddheshwar Mahavidyalaya
Majalgaon - 431 131

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed

B.S.P.S. Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Memorandum of Understanding (MOU) and Interlinkage of Library

Library

Report

Memorandum of Understanding (MOU) and interlinkages and Inter Library Borrowing Facility of Library is with done with various organizations for resource exchanges.

A. Shri Sidhheshwar Arts,Science and Commerce College, Majalgaon
B. Kholeshwar Mahavidyalay, Ambajogai
C. Milliya Arts, Science and Management Science College, Beed
D. Dr. Hedgewar Sarvajanik Vachanalay, Beed
E. Pradnyachakshu Nivasi Vidyalay, Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

C. Milliya Arts, Science and Management Science College, Beed

Anjuman Ishat - E - Taleem Beed's

Milliya Arts, Science & Management Science College, Beed. (M.S.)

(Graduation & Post Graduation)

NAAC RE-ACCREDITED WITH "B" GRADE

ISO 9001:2015 CERTIFIED

PRINCIPAL
Dr. Mohammad Ilyas Fazil
(M.Sc.Ph.D.)

URL:http//:www.milliyasrcollege.org

☎:(02442)224208,229923 Fax No.(02442)224208,229933 E-mail : principalmcb@gmail.com Cell No.9822737339

Ref. No MASCB/Lib-Int-loan./2020-21/2938-4. Date: 20/11/2020

To,

The Principal / Librarian

Sawarkar College

Beed.

Subject: Inter Library Loan Service.

Respected Sir,

As we are aware of today's progressive knowledge and recent development in different fields of subjects, different publishers are publishing huge quantity of books, but a single library cannot make available a tremendous number of books to fulfill the requirements of students as well as faculties.

Hence to have solution for this problem we have interlibrary loan service we have decided to make provision lending books to your college in the same way borrowing the essential books from you.

There for let us enjoy this service.

Thanking you,

Yours sincerely,

Principal
Milliya Arts, Science & Mgmt. Science College, Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Swa.Sawarkar Mahavidyalaya Beed
B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

B.S.P. Sanstha Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Book Issue Register

(Junior / Senior)

Page no - 92

Name: Milliya Arts, Science & management Science College. Beed.   Mob. No.: ____________

Subject: ____________

Acc.No.	Title	Author	Date of Issue	Lect. Sign.	Date of Return	Librarian's Sign.	Remarks
6481	यजुर्वेद	[illegible]	21/12/20	[signature]	26/4/21	[signature]	
11916	रावण संहिता	पं. [illegible] शर्मा	21/1/20	[signature]	26/4/21	[signature]	
11099	[illegible] मांदियाळी	[illegible]	26/4/21	[signature]	12/10/21	[signature]	
14621	श्रीमद् भगवद्गीता	[illegible]	26/4/21	[signature]	12/10/21	[signature]	
11452	[illegible]	[illegible]	26/4/21	[signature]	12/10/21	[signature]	
11524	भगवान श्रीकृष्ण	प्रो. [illegible] कुलकर्णी	12/10/21	[signature]	27/7/22	[signature]	
6142	भारतीय तीर्थक्षेत्रे	[illegible]	12/10/21	[signature]	29/4/22	[signature]	

E. MOU with Pradnyachakshu Nivasi Vidyalay, Beed

Established 1995

केल्याने होत आहे रे। आधी केलेचि पाहिजे ॥

Bhartiya Shikshan Prasarak Sanstha, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Arts, Science & Commerce

NAAC Accreditation Grade 'B'

Dr.S.G.Shirodkar
Principal

Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed- 431122, Maharashtra (INDIA)
Phone : 02442-226218 E-mail:- veersawarkarbeed@gmail.com Web site-www.sawarkar.co.in

Out No.: SSMB/2018-2019/Library/183.11 दिनांक: 16/07/2018

प्रति,
मा. श्री. मुख्याध्यापक
प्रज्ञाचक्षु निवासी अंध विद्यालय,
बीड

विषय: अंतर ग्रंथालय देवघेव योजनेतून (Inter Library Services) सहसंबंध निर्माण करणे बाबतं.

महोदय,

आपल्या दोन्ही संस्कार केंद्रा मधून शिकणाऱ्या विद्यार्थ्यांना ज्ञानग्रहण करण्यासाठी विविध सेवा एकमेकांना पुरविण्याच्या दृष्टीकोनातून आम्ही आपणास विनंती करतो कि ग्रंथालयातील विद्यार्थ्यांना वाचनासाठी काही साहित्य लागल्यास आम्ही आपण्यास सेवा देण्यात आनंद मानू. तसेच. आमच्या कडील प्रज्ञाचक्षु विज्ञार्थ्यास ही आपल्याकडून ब्रेल साहित्याची देवाण घेवाण व्हावी ही विनंती.

अंतर ग्रंथालय देवघेव योजने तिल (Inter Library Services) सहसंबंध भविष्यात ही सुरु ठेवू.

धन्यवाद.

प्राचार्य

Principal
Swa.Sawarkar Mahavidyalaya
,Beed

Received
16/7/18

प्र.मुख्याध्यापक
प्रज्ञाचक्षु निवासी अंध विद्यालय
बीड.

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed

B.S.P. Sanstha Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

अपंग विद्यार्थ्यांसाठी
ब्रेल ग्रंथ

Book Issue Register

(Junior / Senior)

2018-19 Mob. No.: 9890095391

Name: प्रज्ञाचक्षु निवासी अंध विद्यालय, बीड

Subject: शाळेकडून ILL अंतर्गत आणलेले ग्रंथ

Acc.No.	Title	Author	Date of Issue	Lect. Sign.	Date of Return	Librarian's Sign.	Remarks
B-115	स्फूर्तीचे धबधबे	उज्ज्वला पवार	14/8/2018		15/10/2018	[illegible]	[illegible]
B-77	कुमार कुळांसाठी प्रश्न उत्तर		14/8/2018		15/10/2018	[illegible]	-"-
182	जनातलं मनातलं.	हेमंत रकडे	14/8/2018		15/10/18	[illegible]	-"-
	2019 - 2020						
B.151	नेत्रहीन विद्यार्थ्यांसाठी क्रीडा व शिक्षण आविष्कार संस्करण	जितेंद्र नफ्तवाल	28/6/19		23/8/19	[illegible]	
			[illegible]		[illegible]	[illegible]	
	अपंगत्वावर विजय भाग.1	कृपा मिहानी (शारदा)	28/6/19		23/8/19	[illegible]	

Swa. Sawarkar Mahavidyalaya B.S.P.S. Ambajogai * Beed *

Principal
Swa. Sawarkar Mahavidyalaya
Beed

Established 1995

पेरल्याने होत आहे रे। आधी केलेचि पाहिजे ॥

Bharatiya Shikshan Prasarak Santha, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Arts, Science & Commerce
NAAC Accreditation Grade 'B'

Dr.S.G.Shiradkar
Principal

Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed- 431122, Maharashtra (INDIA)
Phone : 02442-226218 E-mail:- veersawarkarbeed@gmail.com Web site-www.sawarkar.co.in

Out No.: SSMB/2018-2019/Library/ 804 A. दिनांक: 23/08/2019

प्रति,
मा. श्री. मुख्याध्यापक
प्रज्ञाचक्षु निवासी अंध विद्यालय,
बीड

अंतर ग्रंथालय देवघेव योजने तिल (Inter Library Services) सहसंबंधाला अनुसरून आपण आमच्या कडील अंध विद्यार्थ्याला काही ब्रेल पुस्तकांची आवश्यकता होती. ती आपण दिलीत त्या बद्दल आम्ही आपले आभारी आहोत.

सर्व पुस्तके सुस्थितीत परत करत आहोत

धन्यवाद!

प्राचार्य
Principal
Swa.Sawarkar Mahavidyalaya
Beed

परत करत असलेले पुस्तके

1. B 151 – करियर आणि रोजगार मार्गदर्शिका AK
2. अपंगत्वावर विजय – भाग 1 - उषा मोहनी AK

Received
प्र.मुख्याध्यापक
प्रज्ञाचक्षु निवासी अंध विद्यालय
बीड.

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Swa.Sawarkar Mahavidyalaya ★ Beed ★ B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Established 1995

केल्याने होत आहे रे | आधी केलेचि पाहिजे ||

Bharatiya Shikshan Prasarak Sanstha, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Arts, Science & Commerce

NAAC Accreditation Grade 'B'

Dr.S.G.Shirodkar
Principal

Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed- 431122, Maharashtra (INDIA)
Phone : 02442-226218 E-mail:- veersawarkarbeed@gmail.com Website-www.sawarkar.co.in

Out No.: SSMB/2018-2019/Library/ 617B दिनांक: 15/10/2018

प्रति,
मा. श्री. मुख्याध्यापक
प्रज्ञाचक्षु निवासी अंध विद्यालय,
बीड

आपल्यातील अंतर ग्रंथालय देवघेव योजने तिल (Inter Library Services) सहसंबंधाला अनुसरून आपण आमच्या कडील अंध विद्यार्थ्याला काही ब्रेल पुस्तकांची आवश्यकता होती. ती आपण दिलीत त्या बद्दल आम्ही आपले आभारी आहोत.

सर्व पुस्तके सुस्थितीत परत करत आहोत. भविष्यात ही आवश्यकता पडल्यास आपण एकमेकांच्या मदतीला येवू.

धन्यवाद।

प्राचार्य

Principal
Swa.Sawarkar Mahavidyalaya
Beed

परत करत असलेले पुस्तके

1. B 115 – स्फूर्तीचे धबधबे – उज्वला पवार
2. B 72 – कुमार मुलांसाठी प्रश्न उत्तर
3. 162 – जनातलं मनातलं – हेमंत टाकले

Received

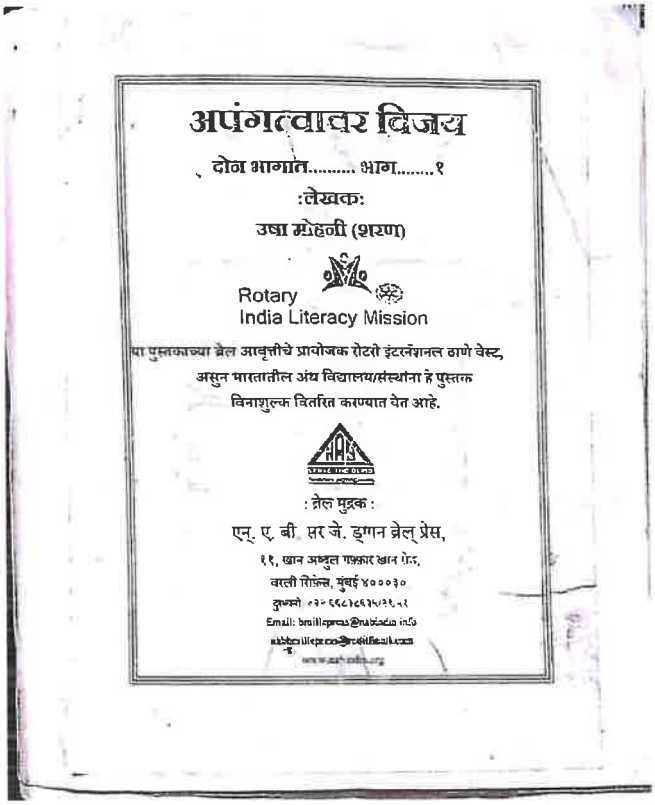
प्र.मुख्याध्यापक
प्रज्ञाचक्षु निवासी अंध विद्यालय
बीड.

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Swa.Sawarkar Mahavidyalaya Beed B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Brail Books Broweed by Pradnyachakshu Nivasi Vidyalay, Beed



अपंगत्वावर विजय

दोन भागात..... भाग.....१

:लेखक:

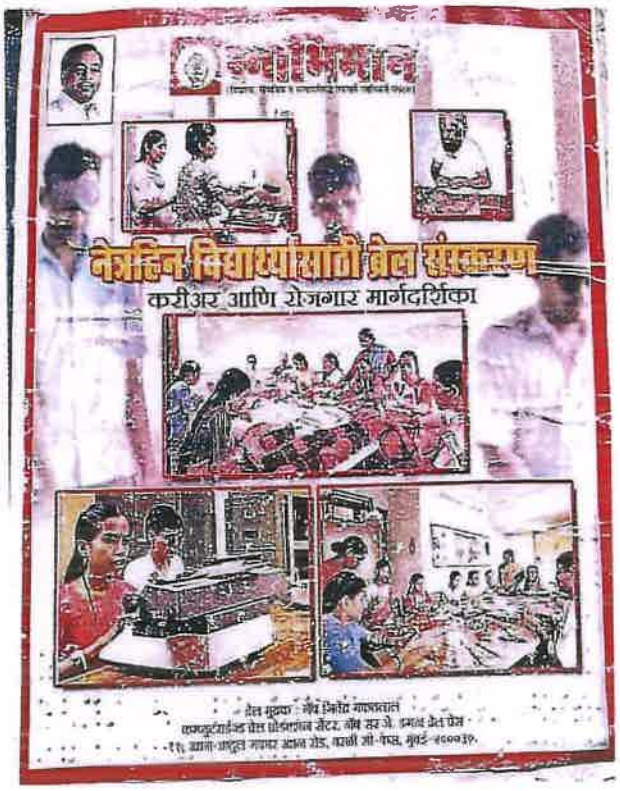
उषा मोहनी (शरण)

Rotary
India Literacy Mission

या पुस्तकाच्या ब्रेल आवृत्तीचे प्रायोजक रोटरी इंटरनॅशनल ठाणे वेस्ट, असुन भारतातील अंध विद्यालय/संस्थांना हे पुस्तक विनाशुल्क वितरित करण्यात येत आहे.

: ब्रेल मुद्रक :

एन्. ए. बी. सर जे. डुगन ब्रेल् प्रेस,



Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Librarian

Librarian
Swa.Sawarkar Mahavidyalaya
Beed

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal

Principal
Swa.Sawarkar Mahavidyalaya
Beed

D. Dr. Hedgewar Sarvajanik Vachanalay, Beed

B. S.P.S Ambajogai,s
Swa. Sawarkar Mahavidyalaya Beed
(Arts, Science & Commerce)

Principal :- 02442- 226218 (O)
Web-site-Sawarkar.org.in,
facebook.com/sawarkarcollegebeed
e-mail:- veersawarkarbeed@gmail.com

COLLEGE CAMPUS
BEED- 431122 (Maharashtra) INDIA
Dr. Shirodkar S.G. Principal

Outward No:- SSMB/LIBRARY /2020-21/ 3013B Date – 09/09/2020

Memorandum of Understanding (MOU) and interlinkages
Between
Swa. Sawarkar Mahavidyalaya, Beed
And
Dr. Hedgewar Wachanalaya, Beed

Memorandum of understanding (MOU) and interlinkages signed on Wednesday, 09/09/2020 between Library and Information Center of Bhartiya Shikshan Prasarak Sanstha Ambajogai's Swa. Sawarkar Mahavidyalaya, Beed (Partner I) and Dr. Hedgewar Wachanalaya, Beed (Partner II). Swa. Sawarkar Mahavidyalaya, Beed, represented by the Principal Dr. S. G. Shirodkar and Librarian Dr. Anuja Kastikar. Dr. Hedgewar Wachanalaya, Beed represented by the President, Mr. Gajanan Raghunath Jagtap, Librarian Mr. Ramakant B. Sherkar. It is regarding Resource Sharing Program between the institutions. Following terms and conditions agreed by both parties.

1. Knowledge Resources Sharing facilities for the students, researchers, faculties and library users through the library use.
2. Collaboration in the sharing books/ journals
3. Joint efforts for organization of various user orientation and other programs.
4. Researchers of both the parties should acknowledge the support obtain during their research
5. Duration of MOU and interlinkage shall be for five years to be continued further after necessary reviews by all participated institutions.
6. There will be no financial obligations/ Burdon on both the parties.

President
Mr. Gajanan Raghunath Jagtap
Dr. Hedgewar Wachanalaya, Beed

अध्यक्ष कोषाध्यक्ष कार्यवाह
डॉ.हेडगेवार सार्वजनिक वाचनालय
सहयोग नगर,बीड

Librarian
Mr. Ramakant B. Sherkar
Dr. Hedgewar Wachanalaya, Beed

डॉ.हेडगेवार सार्व[illegible]
[illegible]

Principal
Dr. S. G. Shirodkar
Swa. Sawarkar Mahavidyalaya, Beed

Librarian
Dr. Anuja A. Kastikar
Swa. Sawarkar Mahavidyalaya, Beed

Librarian
Swa.Sawarkar Mahavidyalaya
Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Page 1

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

B.S.P. Sanstha Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Book Issue Register

(Junior / Senior)

Name : डॉ. हेडगेवार सार्वजनिक वाचनालय, बीड Mob. No : ____________

Subject : ____________

Acc No	Title	Author	Date of Issue	Lect. Sign	Date of Return	Librarian's Sign	Remarks
5264	पदवीपरीक्षेनंतर काय ?	सुरेश वांदिले	15-10-20		13-4-21		
3222	केंद्र/राज्य लोकसेवा आयोग	प्रा.डॉ. सावंत	15-10-20		13-4-21		
7157	[illegible] कुमारी ... [illegible] मल्लिका	[illegible] रितु मेनन	13-4-21		18-11-21		
5158	[illegible] अजागृत	[illegible]	13-4-21		18-11-21		
5729	सावित्रीबाई फुले आणि ... व्यक्तिमत्व	प्रा. ना.ग. पवार	13-4-21		18-11-21		
13323	भारतीय स्त्री-उत्थान भाग-1	डॉ. गायत्री कुलकर्णी	13-4-21		18-11-21		
4002	[illegible]	व.कृ. [illegible]	18-11-21		24-2-22		
15458	परीक्षा स्पर्धा डॉ. [illegible]	[illegible]	18-11-21		24-2-22		
10220	आयोग आणि परीक्षा	प्रा. [illegible]	24-12-21		24-2-22		
14655	Study of Literature	W. H. Hudson	24-12-21		24-2-22		
15126	The English Novel	George Saintsbury	24-2-22		6/12/22		

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Established-1995

Bhartiya Shikshan Prasarak Santhas, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

NAAC– RE-ACCREDITION GRADE-B

Dr. P.D. Pohekar

M.A.,SET,M.Phil.,Ph.D.

- Website : https://www.sawarkarcollegebeed.edu.in
- E-mail : veersawarkarbeed@gmail. Com

SSMB/2022-2024/ 170 Date: **16/11/2022**

Memorandum of Understanding for
Divyang-friendly Activities

Between

Department of Sociology
B.S.P. Sanstha's Swa. Sawarkar Mahavidyalaya, Beed
Sawarkar Nagar, Jalna Road, Beed

And

Samadrishti, Kshamata Vikas Evam Anusandhan Mandal (SAKSHAM)
Deogiri Prant.

Date: **16/11/2022**

The purpose of this Memorandum of Understanding ("MOU") is to confirm conducting Divyang-friendly Activities.
This MOU confirms agreement by the Partners with the goals, anticipated outcomes, methodology, and a desiret of open and free environment for Divyang persons. This is focused on creating awareness about the problems of Divyang persons in the society.
This MOU provides an opportunity to the Partners to engage actively in the proposed program:

1) Running Divyang Rehabilitation Service Center.
2) Organizing World Disability Day.
3) Celebrating special days such as, Birth Anniversary of Saint Surdas, Hellen Keller.
4) The Partners will involve graduate students in the work of our partnership at every possible opportunity to provide assistance to the divyang-jan in the society.
5) Any other activity that both the parties propose for rehabilitation of divyang person.

The partner acknowledges their respective roles and responsibilities in conducting various components either solely or in collaboration with other partners and participants. The Partners share the desire to produce high quality outputs. Further, they will share, promote, engage, and disseminate outcomes to the widest possible audiences that include, but are not limited to, academic organizations, non-profit entities, programs, policy-makers, and any other interested stakeholder. Ultimately, the collective goal

is that the activities run and knowledge created is accessible for the benefit of all those who wish to access it.

The Partners shall be respected for the inputs and outputs they offer for rehabilitation of Divyang person. They will be committed for open, honest and direct communication and to maintaina high degree trust amongst them.

The Partners by mutual consent, add, modify, amend, delete, review or revise any term(s) and condition(s) of this agreement.

The Partners have read and agree with the proposed plan for governance of this MoU.

The Partners are committed to enhancing opportunities for learning wherever possible.

This MOU is not intended to be legally binding and does not create any binding obligations or commitments between the Partners.

This MOU shall terminate at the earlier of Five (5) years from the date of complete execution by all Partners; or three (3) months from the date either Partner decides to terminate by giving written notice to the other Partner.

To the extent that any legal issue arises in connection with this Memorandum, it will be governed by and construed in accordance with The Rights of Person with Disability Act, 2016 and The Maharashtra Public University Act, 2016 applicable therein.

AGREED by the Parties through their authorised signatories:

For and on behalf of
Swa.Sawarkar Mahavidyalaya, Beed

Signature

Prof. Narayan Shinde
Head, Department of Sociology
Date: 16/11/2022Date: 16/11/2022

For and on behalf of
SAKSHAM

Signature

Mr. Shriram Shinde
Secretary
कार्यालय प्रमुख
सक्षम देवगिरी प्रांत

Signature

Prof. Priti Pohekar
Principal
Date: 16/11/2022

Swa.Sawarkar Mahavidyalaya,Beed. B.S.P.S Ambajogai

Seal **Principal**
Swa.Sawarkar Mahavidyala,
Beed.

Witnesses:
1) Prof. Rajesh Dhere, Vice-Principal, Swa.Sawarkar Mahavidyalaya, Beed
2) Mr. Yogesh Burande, Head of Communication, SAKSHAM, Deogiri Prant

भारतीय शिक्षण प्रसारक संस्था अंबाजोगाई,

स्वा. सावरकर महाविद्यालय बीड,

समाजशास्त्र विभाग व देवगिरी प्रांत सक्षम अंतर्गत दिव्यांग माता सन्मान सोहळ्याचे आयोजन करण्यात आले होते. हा सन्मान सोहळा दिनांक 14/ 3/2023 रोजी सकाळी दहा वाजता करण्यात आला . कार्यक्रमाच्या प्रसंगी प्रमुख पाहुणे डॉ. अनिल बारकुल कार्यक्रमाचे अध्यक्ष महाविद्यालयाच्या प्राचार्य डॉ. प्रीती पोहेकर उपस्थित होत्या कार्यक्रमाचे सूत्रसंचालन प्रा. राम गव्हाणे यांनी केले तर कार्यक्रमाचे प्रास्ताविक प्रा. नारायण शिंदे यांनी केले, कार्यक्रमाची सुरुवात प्रतिमा पूजन करून करण्यात आली या कार्यक्रमाच्या प्रसंगी बीड शहरातील दिव्यांग माता व त्यांचे पाल्य यांचा सन्मान सोहळा करण्यात आला. या कार्यक्रमाला एकूण नऊ माता व त्यांचे पाल्य उपस्थित होते. कार्यक्रमाचे प्रमुख पाहुणे डॉ. अनिल बारकुल यांनी असे मत व्यक्त केले की आई ही प्रत्येकासाठी खऱ्या अर्थाने आयुष्याची शिदोरी असते. या कार्यक्रमाच्या प्रसंगी महाविद्यालयाच्या प्राचार्य डॉ. प्रीती पोहेकर यांनी समाजामध्ये अशा मातांचा सन्मान झाला पाहिजे. समाजात त्यांना स्थान प्राप्त झाले पाहिजे. असे म्हटले या कार्यक्रमासाठी समाजशास्त्र विभागातील सर्व विद्यार्थी व सहकारी प्राध्यापक उपस्थित होते. कार्यक्रमाचे आभार प्रदर्शन प्रा. सुमित ओव्हाळ सर यांनी केले व कार्यक्रमाची सांगता शांती मंत्राने करण्यात आली.

समाजशास्त्र विभाग प्रमुख

कार्यालय प्रमुख
सक्षम देवगिरी प्रांत

प्राचार्य
Principal
Swa.Savarkar Mahavidyalaya
Beed.

समाजशास्त्र, विभाग व सक्षम. यांच्या संयुक्त विद्यमाने , दिव्यांग माता सन्मान सोहळा दिनांक 14/03/2023

Swa.Sawarkar Mahavidyalaya 139 Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

मा. डॉ. अनिल बारकुल मार्गदर्शन करताना.

डॉ. अनिल बारकुल , प्राचार्य, डॉ. प्रीती पोहेकर मार्गदर्शन करताना.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

दिव्यांग माता सन्मान सोहळा क्षणचित्रे.

मा. प्राचार्य, डॉ. प्रीती पोहेकर मातांचे स्वागत. करताना

मा. डॉ. अनिल बारकुल मातांचा सत्कार करताना

कार्यक्रमाच्या प्रसंगी सर्व प्राध्यापक व सहभागी विद्यार्थी.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

कार्यक्रमाचे क्षणक्षेत्रे वर्तमानपत्रातील बातम्या.

सावरकर महाविद्यालयात मातांचा सन्मान

आई आयुष्याची शिदोरी
– डॉ.अनिल बारकुल–

बीड दि.१४ (प्रतिनिधी) जगाला सांभाळण्याची ताकद आई मध्ये आहे. प्रत्येक विद्यार्थ्याच्या जडणघडणीत शाळेबरोबरच आईची भूमिका अत्यंत महत्वाची आहे. आई आयुष्याची शिदोरी आहे, मुलाला पुढे घेऊन जाण्याचे काम ती करते असे प्रतिपादन डॉ. अनिल बारकुल यांनी केले.

येथील स्वा. सावरकर महाविद्यालयात समाजशास्त्र विभाग व सक्षम का स्वयंसेवी संस्थेच्या संयुक्त विद्यमाने दिव्यांग व्यक्ती माता सन्मान सोहळ्याच्या कार्यक्रमात ते बोलत होते. कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाच्या प्राचार्य डॉ. प्रीती पोहेकर या होत्या. व्यासपीठावर महाविद्यालयाचे उपप्राचार्य डॉ.लक्ष्मीकांत वाहिनवाणकर यांची उपस्थिती होती. पुढे बोलताना डॉ. बारकुल म्हणाले की दिव्यांग व्यक्तीचे संगोपन करणाऱ्या मातांना मी सलाम करतो, हे काम अत्यंत अवघड आहे. आपल्या मुलाच्या यशात आईला आनंद असतो. दिव्यांग व्यक्ती ह्या सर्वसामान्य व्यक्ती पेक्षा कोणेही कमी नाही. शिक्षण, कला, क्रीडा क्षेत्रात अनेक दिव्यांग व्यक्तींनी मोठ्या दीपक कामगिरी केलेली आहे. शिक्षणाच्या माध्यमातून आपण अडचणीवर मात

पान २ वर..

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

वर्तमानपत्रातील बातमी कात्रण

सावरकर महाविद्यालयात दिव्यांग व्यक्तींच्या मातांचा सन्मान, आई आयुष्याची शिदोरी - डॉ अनिल बारकुल

तमा वृत्तसेवा
बीड दि.१४ मार्च

जगाला सांभाळण्याची ताकद आई मध्ये आहे. प्रत्येक विद्यार्थ्याच्या जडणघडणीत शाळेबरोबरच आईचा भूमिका अत्यंत महत्वाची आहे. आई आयुष्याची शिदोरी आहे, मुलाला पुढे घेऊन जाण्याचे काम ती करते असे प्रतिपादन डॉ. अनिल बारकुल यांनी केले.

येथील स्वा. सावरकर महाविद्यालयात समाजशास्त्र विभाग व सक्षम या स्वयंसेवी संस्थेच्या संयुक्त विद्यमाने दिव्यांग व्यक्ती माता सन्मान सोहळ्याच्या कार्यक्रमात ते बोलत होते. कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाच्या प्राचार्य डॉ. प्रीती पोहेकर या होत्या.व्यासपीठावर महाविद्यालयाचे उपप्राचार्य डॉ.लक्ष्मीकांत बाहेगव्हाणकर यांची उपस्थिती होती. पुढे बोलताना डॉ. बारकुल म्हणाले की दिव्यांग व्यक्तीचे संगोपन करणाऱ्या मातांना मी सलाम करतो, हे काम अत्यंत अवघड आहे. आपल्या मुलाच्या यशात आईला आनंद असतो.दिव्यांग व्यक्ती ही सर्वसामान्य व्यक्ती पेक्षा कोठेही कमी नाही. शिक्षण, कला, क्रीडा क्षेत्रात अनेक दिव्यांग व्यक्तींनी नेत्र दीपक कामगिरी केलेली आहे. शिक्षणाच्या माध्यमातून आपण अडचणींवर मात करू शकतो. अध्यक्षीय समारोपात प्राचार्य डॉ. प्रीती पोहेकर म्हणाल्या की दिव्यांग व्यक्ती स्वावलंबी आणि समर्थ करणे सक्षम चे काम आहे. या व्यापक उद्देशाने ही संस्था काम करते. प्रत्येक व्यक्तीने एक तरी दिव्यांग व्यक्तीला आपला मित्र बनवावे. दिव्यांगांच्या समस्या समजावून घेऊन शासनाच्या विविध योजनांचा लाभ मिळून देण्याचे काम पण केले पाहिजे असे त्या म्हणाल्या.यावेळीदिव्यांग व्यक्तींच्यामातांचा सत्कार मान्यवरांच्या हस्तेकरण्यात आला. कार्यक्रमाचे प्रास्ताविक समाजशास्त्र विभागाचे प्रमुख प्रा. नारायण शिंदे यांनी केले. सूत्रसंचालन प्रा. राम गव्हाणे यांनी केले तर आभार प्रा. ओहोळ यांनी मानले कार्यक्रमाला महाविद्यालयातील विद्यार्थी प्राध्यापक कर्मचारी यांची उपस्थिती होती.

चंपावतीपत्र

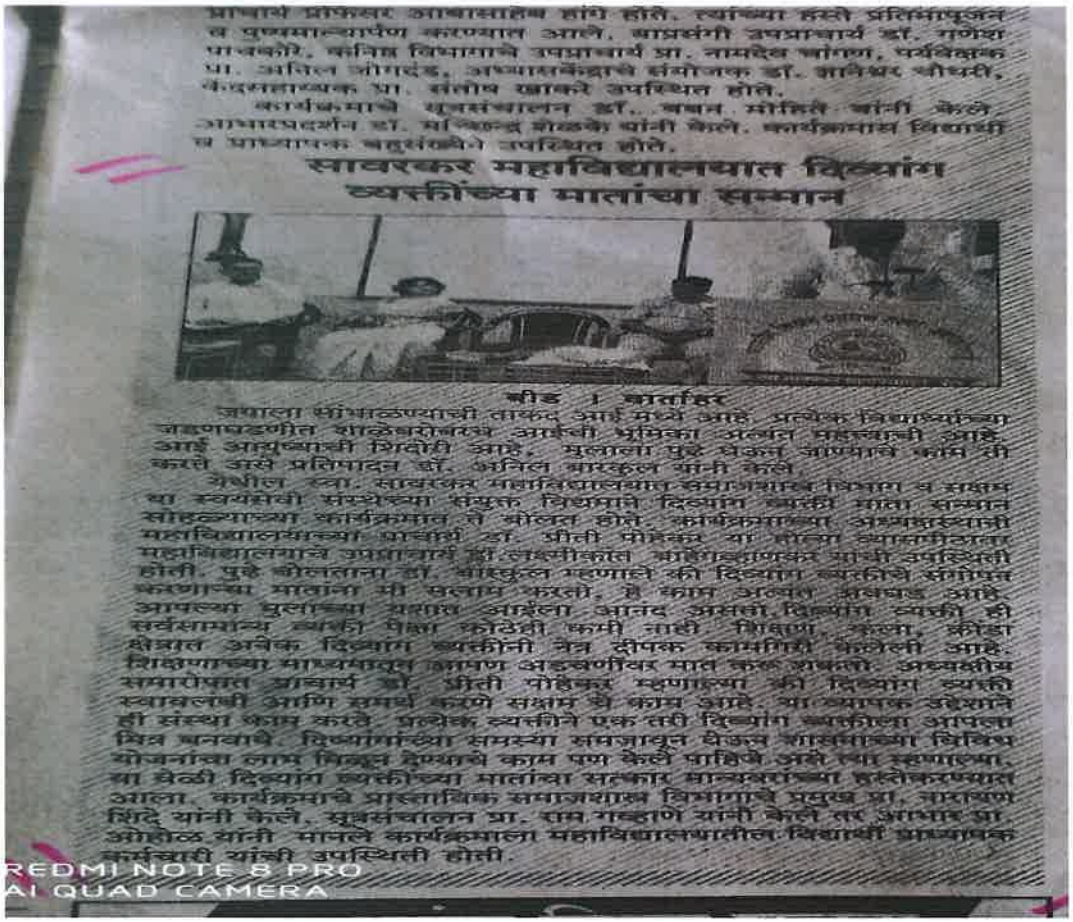
बार-बुधवार दि.१५-०३-२०१३ ५

सावरकर महाविद्यालयात दिव्यांग व्यक्तींच्या मातांचा सन्मान

आई आयुष्याची शिदोरी-डॉ.अनिल बारकुल

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

दिव्यांग माता सन्मान सोहळ्याचे वर्तमानपत्रात बातमी.



प्राचार्य प्रा.डॉ. आबासाहेब हांगे होते. त्यांच्या हस्ते प्रतिमापूजन व पुष्पमाल्यार्पण करण्यात आले. याप्रसंगी उपप्राचार्य डॉ. गणेश पाचकोरे, कनिष्ठ विभागाचे उपप्राचार्य प्रा. नामदेव चोरमारे, पर्यवेक्षक प्रा. अनिल जोगदंड, अध्यासकेंद्राचे समन्वयक डॉ. मनेश्वर चौधरी, पर्यवेक्षक प्रा. संतोष खाकरे उपस्थित होते.

कार्यक्रमाचे सूत्रसंचालन डॉ. भगवान मोकिते यांनी केले. आभारप्रदर्शन डॉ. मच्छिन्द्र शेळके यांनी केले. कार्यक्रमास विद्यार्थी व प्राध्यापक बहुसंख्येने उपस्थित होते.

सावरकर महाविद्यालयात दिव्यांग व्यक्तींच्या मातांचा सन्मान

बीड । वार्ताहर

जगाला सांभाळण्याची ताकद आई मध्ये आहे. प्रत्येक विद्यार्थ्याच्या जडणघडणीत शाळेइतकीच आईची भूमिका अत्यंत महत्त्वाची आहे. आई आयुष्याची शिदोरी आहे. मुलाला पुढे घेऊन जाण्याचे काम ती करते असे प्रतिपादन डॉ. अनिल बारकुल यांनी केले.

येथील स्व. सावरकर महाविद्यालयात समाजशास्त्र विभाग व सक्षम या स्वयंसेवी संस्थेच्या संयुक्त विद्यमाने दिव्यांग व्यक्ती माता सन्मान सोहळ्याच्या कार्यक्रमात ते बोलत होते. कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाच्या प्राचार्या डॉ. प्रीती सोहेकर या तर प्रमुख पाहुणे महाविद्यालयाचे उपप्राचार्य डॉ. लक्ष्मीकांत आहेराव्हाणकर यांची उपस्थिती होती. पुढे बोलताना डॉ. बारकुल म्हणाले की दिव्यांग व्यक्तीचे संगोपन करणाऱ्या मातांना मी सलाम करतो. हे काम अत्यंत अवघड आहे. आपल्या मुलांच्या यशात आईला आनंद असतो. दिव्यांग व्यक्ती ही सर्वसामान्य व्यक्ती पेक्षा कोठेही कमी नाही. शिक्षण, कला, क्रीडा क्षेत्रात अनेक दिव्यांग व्यक्तींनी नेत्र दीपक कामगिरी केलेली आहे. शिक्षणाच्या माध्यमातून आपण अंधश्रद्धेवर मात करू शकतो. अध्यक्षीय समारोपात प्राचार्य डॉ. प्रीती सोहेकर म्हणाल्या की दिव्यांग व्यक्ती स्वावलंबी आणि समर्थ करणे सक्षम चे काम आहे. या व्यापक उद्देशाने ही संस्था काम करते. प्रत्येक व्यक्तीने एक तरी दिव्यांग व्यक्तीला आपला मित्र बनवावे. दिव्यांगांच्या समस्या समजावून घेऊन शासनाच्या विविध योजनांचा लाभ मिळून देण्याचे काम पण केले पाहिजे असे त्या म्हणाल्या. या वेळी दिव्यांग व्यक्तींच्या मातांचा सत्कार मान्यवरांच्या हस्तेकरण्यात आला. कार्यक्रमाचे प्रास्ताविक समाजशास्त्र विभागाचे प्रमुख प्रा. नारायण शिंदे यांनी केले. सूत्रसंचालन प्रा. राम गव्हाणे यांनी केले तर आभार प्रा. ओहोळ यांनी मानले कार्यक्रमाला महाविद्यालयातील विद्यार्थी प्राध्यापक कर्मचारी यांची उपस्थिती होती.

REDMI NOTE 8 PRO
AI QUAD CAMERA

दिव्य मराठी विशेष • बीड येथील स्वा.सावरकर महाविद्यालयात डॉ.अनिल बारकुल यांचे प्रतिपादन

आई ही प्रत्येकासाठी खऱ्या अर्थाने आयुष्याची शिदोरी

प्रतिनिधी | बीड

स्वा.सावरकर महाविद्यालयातील कार्यक्रमात बोलताना डॉ. अनिल बारकुल

समस्या जाणून घेऊन मदत करावी

अध्यक्षीय समारोपात प्राचार्य डॉ. प्रीती पोहेकर म्हणाल्या, दिव्यांग व्यक्ती स्वावलंबी आणि समर्थ करणे सक्षम चे काम आहे. या व्यापक उद्देशाने संस्था काम करते आहे. प्रत्येक व्यक्तीने एक तरी दिव्यांग व्यक्तीला आपला मित्र बनवावे. दिव्यांगांच्या समस्या समजावून घेऊन शासनाच्या विविध योजनांचा लाभ मिळून देण्याचे काम पण केले पाहिजे. समाजातील प्रत्येक घटक सक्षम व्हावा, यासाठी प्रयत्न गरजेचे आहेत, असेही त्यांनी सांगितले.

व्यक्ती माता सन्मान सोहळ्याच्या कार्यक्रमात ते बोलत होते. कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाच्या प्राचार्य डॉ. प्रीती पोहेकर या होत्या. व्यासपीठावर महाविद्यालयाचे उपप्राचार्य डॉ. लक्ष्मीकांत वाडेगावकर यांची उपस्थिती होती. पुढे बोलताना डॉ. बारकुल म्हणाले, दिव्यांग व्यक्तीचे संगोपन करणाऱ्या मातांना भी सलाम करतो. हे काम अत्यंत अवघड आहे. आपल्या मुलाच्या यशात आईला आनंद असतो. दिव्यांग व्यक्ती ही सर्वसामान्य व्यक्ती पेक्षा कोठेही कमी नाही. शिक्षण, कला, क्रीडा क्षेत्रात अनेक दिव्यांग व्यक्तींनी नेत्रदीपक कामगिरी केलेली आहे. शिक्षणाच्या माध्यमातून आपण अडचणींवर मात करू शकतो. त्यामुळे प्रत्येक व्यक्तीने शिक्षण, ज्ञान मिळवण्याच्या प्रयास करावे. आपल्यातील कमतरता, उणिवा बाजूला सारण्यासाठी सातत्य प्रयत्नशील राहावे, असे आवाहन त्यांनी केले. यावेळी दिव्यांग व्यक्तींच्या मातांचा सत्कार मान्यवरांच्या हस्ते करण्यात आला. कार्यक्रमाचे प्रास्ताविक समाजशास्त्र विभागाचे प्रमुख प्रा. नारायण शिंदे यांनी केले. सूत्रसंचालन प्रा. राम गव्हाणे यांनी केले, तर आभार प्रा. ओहोळ यांनी मानले. कार्यक्रमाला महाविद्यालयातील विद्यार्थी, प्राध्यापक, कर्मचारी यांची उपस्थिती होती.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

2021-22 CRI-IV (19)
Dept. of computer Science

SWA.SAWARKAR MAHAVIDYALAYA, BEED

Department of Computer science

MOU COLLABRATON ACTIVITVITY

MOU COLLABRATON ACTIVITVITY1

Title :	**Basic Concept of Terminology and Cyber Law**
Date	**13.04.2022**
Organizer :	Department of Computer Science
Outcome :	**Student aware about the importance of Cyber Law .**

Head
Department of Computer Science
Swa.Sawarkar Mahavidyalaya, Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

HEAD
Department of Computer Science
Yogeshwari Mahavidyalaya,
AMBAJOGAI -431 517

Principal
Yogeshwari Mahavidyalaya
Ambajogai

Invitation Letter

Established 1995

Bharatiya Shikshan Prasarak Sanstha, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Arts, Science & Commerce

NAAC Accreditation Grade 'B'

Dr. K. L. Kamble

Principal

Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed- 431122, Maharashtra (INDIA)
Phone : 02442-226218 E-mail:- veerswarkarbeed@gmail.com Web site-www.swarkar.co.in

Outword No.SSMB/2021-2022/Comp Sci. Guest lecture I Date : 07.04.2022

To,

Dr. R.G.Joshi

Assistant Professor and Head

Department of Computer Science

Yogeshwari Mahavidyalaya Ambajogai,Dist Beed

Subject : Invitation for Guest Lecture in Computer Science

Sir,

You are invite for guest lecture in the Department of Computer Science in our College on the topic " Basic Concept of Technology and Cyber Law " which is held on 13 /04/2022 at 11.00 A.M. You are request to Co-Operate and deliver your latest knowledge to our Students of B.sc Class .

Thanks and Regards.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Received
8.4.22

HEAD
Department of Computer Science
Yogeshwari Mahavidyalaya,
AMBAJOGAI -431 517

Head
Department of Computer Science
Swa.Sawarkar Mahavidyalaya, Beed.

केल्याने होत आहे रे । आधि केलेचि पाहिजे ।।

Bhartiya Shikshan Prasarak Sanstha, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Arts, Science & Commerce

NAAC Accreditation Grade 'B'

Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed- 431 122. Maharashtra (INDIA)
☎ 02442-225218, e-Mail : veersawarkarbeed@gmail.com, Website - www.sawarkar.co.in

To

The Principal,

Swa. Sawarkar Mahavidyalaya,

Beed

Subject: Collaborating Activity

Respected Sir,

As per the collaboration, I am sending the following teacher to your institution under the Teacher Exchange for the purpose to teach on the following topic for your students.

Name of the Teacher: **Dr. R.G. Joshi**

Topic Name : **"Basic Concept of Technology and Cyber Law"**

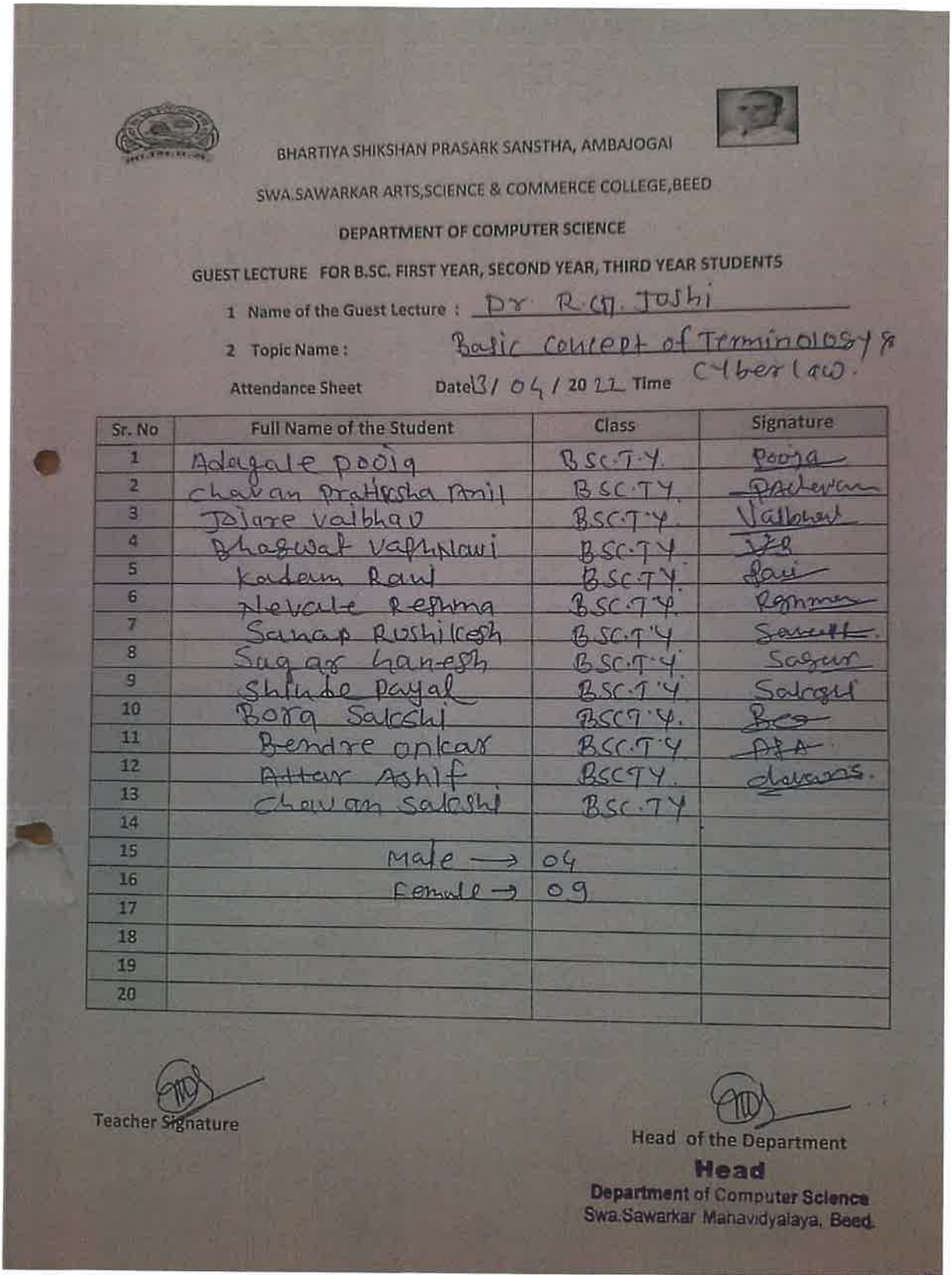
Date : **13/04/2022**

Principal
Swa.Sawarkar Mahavidyala,
Beed.

HEAD
Department of Computer Science
Yogeshwari Mahavidyalaya,
AMBAJOGAI -431 517

Head
Department of Computer Science
Swa.Sawarkar Mahavidyalaya, Beed.

Seminar Attendance



BHARTIYA SHIKSHAN PRASARK SANSTHA, AMBAJOGAI

SWA.SAWARKAR ARTS,SCIENCE & COMMERCE COLLEGE,BEED

DEPARTMENT OF COMPUTER SCIENCE

GUEST LECTURE FOR B.SC. FIRST YEAR, SECOND YEAR, THIRD YEAR STUDENTS

1 Name of the Guest Lecture : Dr R.G. Joshi

2 Topic Name : Basic Concept of Terminology & Cyber Law.

Attendance Sheet Date 31/04/2021 Time

Sr. No	Full Name of the Student	Class	Signature
1	Adagale Pooja	B.Sc.T.Y.	Pooja
2	Chavan Prathesha Anil	B.Sc.T.Y.	Pratheva
3	Jajare Vaibhav	B.Sc.T.Y.	Vaibhav
4	Bhaswat Vaghmare	B.Sc.T.Y.	
5	Kadam Rani	B.Sc.T.Y.	Rani
6	Nevale Reshma	B.Sc.T.Y.	Reshma
7	Sanap Rushikesh	B.Sc.T.Y.	Sanap
8	Sugar Ganesh	B.Sc.T.Y.	Sagar
9	Shinde Payal	B.Sc.T.Y.	Satish
10	Bora Sakshi	B.Sc.T.Y.	Bora
11	Bendre Onkar	B.Sc.T.Y.	
12	Attar Ashif	B.Sc.T.Y.	
13	Chavan Sakshi	B.Sc.T.Y.	
14			
15	Male →	04	
16	Female →	09	
17			
18			
19			
20			

Teacher Signature

Head of the Department

Head
Department of Computer Science
Swa.Sawarkar Mahavidyalaya, Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

केल्याने होत आहे रे । आधि केलेचि पाहिजे ।।
Bhartiya Shikshan Prasarak Sanstha, Ambajogai
Swa. Sawarkar Mahavidyalaya, Beed
Arts, Science & Commerce
NAAC Accreditation Grade 'B'
Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed 431 122. Maharashtra (INDIA)
☎ 02442-226218, e-Mail : veersawarkarbeed@gmail.com, Website - www.sawarkar.co.in

SSmb/2021.22/GL-I

Date
13.4.2022

Letter of Thanks

To,

Dr. R.G. Joshi,

Assistant Professor and Head,

Department of Computer Science

Yogeshwari Mahavidyalaya, Ambajogai

Thank you for your time and talk on 13.04.2022 time 11 am to 12.15. pm especially on the Guest Lecture topic **" Basic Concept of terminology and Cyber Law".** We appreciate your knowledge that you shared with our UG Computer Science Students.

On behalf of all our Colleagues and Students we congratulate you .it is always pleasure to see great contribution and future relationship with our College and department of Computer Science.

Received RGJoshi
13/4/2022

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

W/S/C 2021-22

13

13

MOU COLLABRATON ACTIVITVITY2

Title :	**A cadet a Computer Based Clinical DSS**
Date	**19.01.2022**
Time	**5 Pm**
Organizer :	Department of Computer Science
Outcome :	**Student aware about decision Support system in medical research in computer science**

Department of Computer Science
Swa.Sawarkar Mahavidyalaya, Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

HEAD
Department of Computer Science
Yogeshwari Mahavidyalaya,
AMBAJOGAI -431 517

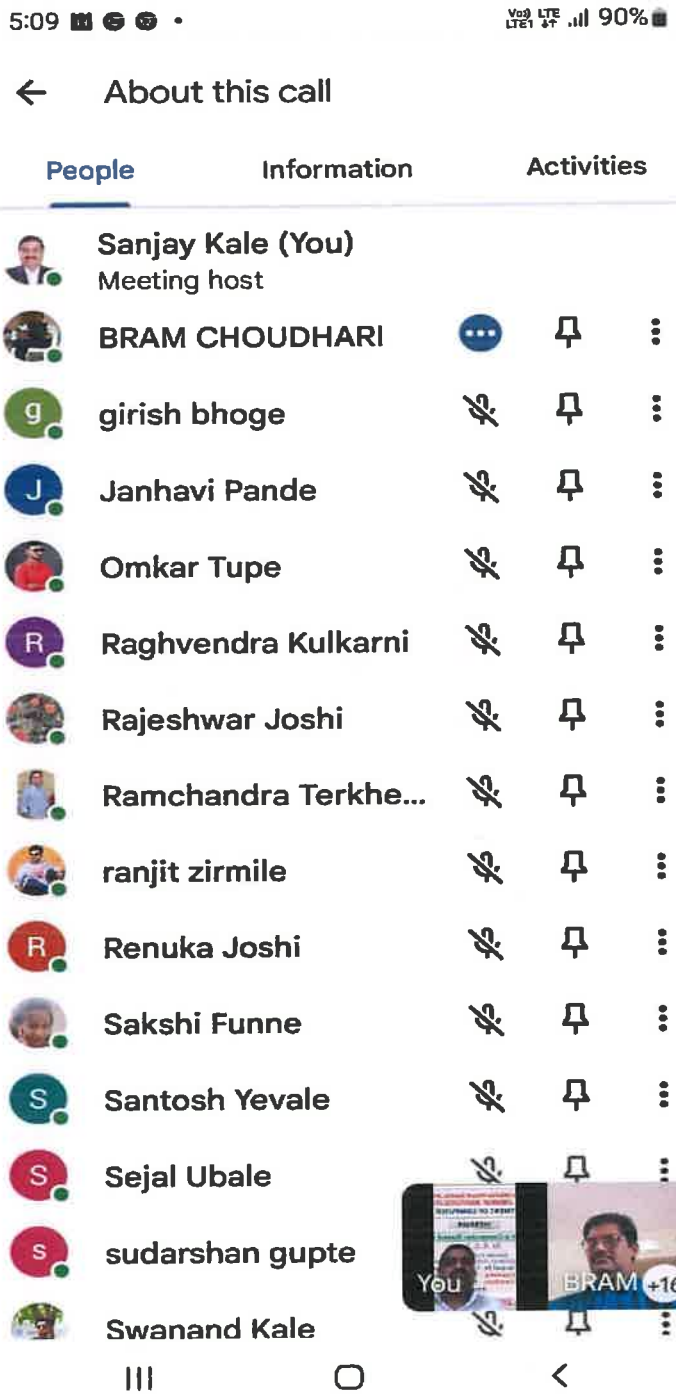
Principal
Yogeshwari Mahavidyalaya
Ambajogai

Principal
Yogeshwari Mahavidyalaya
Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Principal
Yogeshwari Mahavidyalaya
Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.



Principal
Yogeshwari Mahavidyalaya
Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

केल्याने होत आहे रे । आधि केलेचि पाहिजे ।।
Bhartiya Shikshan Prasarak Sanstha, Ambajogai
Swa. Sawarkar Mahavidyalaya, Beed
Arts, Science & Commerce
NAAC Accreditation Grade 'B'
Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed. 431 122. Maharashtra (INDIA)
☎ 02442-226218 e-Mail : veersawarkarbeed@gmail.com, Website - www.sawarkar.co.in

Ssmb/2021-22/Webinar-I

Letter of Thanks

Date
19.01.2022

To,

Dr. R.G. Joshi,

Assistant Professor and Head,

Department of Computer Science

Yogeshwari Mahavidyalaya, Ambajogai

Thank you for your time and talk on **19.01.2022** time 5 pm to 6.00. pm especially on the Webinar topic " **A cadet a Computer Based Clinical DSS"**. We appreciate your knowledge that you shared with our UG Computer Science Students.

On behalf of all our Colleagues and Students we Congratulate you .it is always pleasure to see great contribution and future relationship with our College and department of Computer Science

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Received Rajoli
19.1.2022

Zoology

2021-22

Dept. of Zoology

Date: 5th April 2022

To,

The Principal,

Swa. Sawarkar Mahavidyalaya,

Beed.

Subject: Requesting permission to visit a Maharashtra Fish-Seed Center, Kesapuri Maljalgaon, Dist. Beed to study fish-breeding technique and fish culture.

Reference: Visit under MOU to Maharashtra Fish- seed center, Majalgaon.

Respected Sir,

With reference to the above subject, the department of Zoology has planned a one day visit n 7th of April, 2022 to Maharashtra fish-seed center at Kesapuri, majalgaon, Dist. Beed. The visit is aimed for B. Sc. students to study fish culture and training of fish breeding technique.

Please allow and give permission to same.

Thanking You.

Your's sincerely

Dr. R. M. Dhere
HOD

Department of Zoology,
Swa. Sawarkar Mahavidyalaya, Beed

Encl: List of the students and staff

Swa. Sawarkar Mahavidyalaya B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya
Beed

महाराष्ट्र मत्स्यबीज उत्पादन केंद्र

B. S.P.S Ambajogai,s
Swa. Sawarkar Mahavidyalaya Beed.
(Arts, Science & Commerce)

Principal :- 02442- 226218 (R)
Web-site-www.bspsa.org/Sawarkar.org.in
e-mail:- veersawarkarbeed@gmail.com

COLLEGE CAMPUS
BEED- 431122
(Maharashtra) INDIA
Shri. Hivarekar S.S.
Incharge Principal

Outward No:-SSMB/ Col.Zoology/2010-11/113 Date - 21/06/2010

Collaboration
Between
Swa. Sawarkar Mahavidyalaya, Beed.
And
Maharashtra Fish Seed Production Center Kesapuri Taluka Majalgaon District Beed

Collaboration between Swa. Sawarkar Mahavidyalaya, Beed and Maharashtra Fish Hatchery Center Kesapuri Taluka Majalgaon District Beed is intended to facilitate a collaborative programme in educational and research activities. The linkage hereby formed shall further assist in achieving partner institution's objectives and strengthen the mutual relationship between the partners. This Collaboration shall continue in effect from the Dated 21/06/2010.

Collaboration envisages the following:-

1. Facilitating the graduating student to undergo intensive training and gain hands on experience.
2. Providing an opportunity for Graduate and Research students of Swa. Sawarkar Mahavidyalaya, Beed to conduct their research in the farm.
3. Enabling staff of Swa. Sawarkar Mahavidyalaya, Beed to undertake research programmes with respect to production of carp seeds and other relevant activities.

Agreed By

Shaikh Mukhtar
Maharashtra Fish Seed Production Center
Kesapuri Taluka Majalgaon District Beed.

Principal
Swa. Sawarkar Mahavidyalaya, Beed.

Witnessed By

B.S.P.S ambajogai's

SWA.SAWARKAR MAHAVIDYALAYA, BEED

DEPARTMENT OF ZOOLOGY

STUDY TOUR-2021-22

List of the Students:

Sr.No.	Name of the Students	Class
1	Deshmukh Snehal Satish	B.Sc. TY
2	Mohare Vaishnavi Ganesh	B.Sc. TY
3	Nare Sagar Rajendra	B.Sc. TY
4	Deshmukh Geetanjali	B.Sc. TY
5	Galdhar Rohan Babasaheb	B.Sc. TY
6	Sarode Vishal Sitaram	B.Sc. TY
7	Bochare Ganesh Sunil	B.Sc. TY
8	Rupade Gaurav Deepak	B.Sc. TY
9	Amte Roshan	B.Sc. TY
10	Bedge Abhijit	B.Sc. TY

List of Staff Member:

Sr.No.	Name of the Staff Member	Designation
1	Dr. Dhere Rajesh Marotrao	HOD& Associate Professor
2	Dr. Dhond Gopal Martandrao	Assistant Professor
3	Smt Kulkarni Alka	Peon

TEACHER

G. M. DHOND

HOD

R. M. DHERE.

PRINCIPAL

S. G. SHIRODKAR

Principal

Swa.Sawarkar Mahavidyalaya

Beed

महाराष्ट्र मत्स्यबीज उत्पादन केंद्र

प्रोप्रायटर

PHOTOGRAPHS

OF

VISIT

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Visit to Maharashtra fish seed center at Kesapuri Majalgaon Dated: 7.4.2022

Keshavraj temple at Kesapuri Majalgaon Dated: 7.4.2022

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

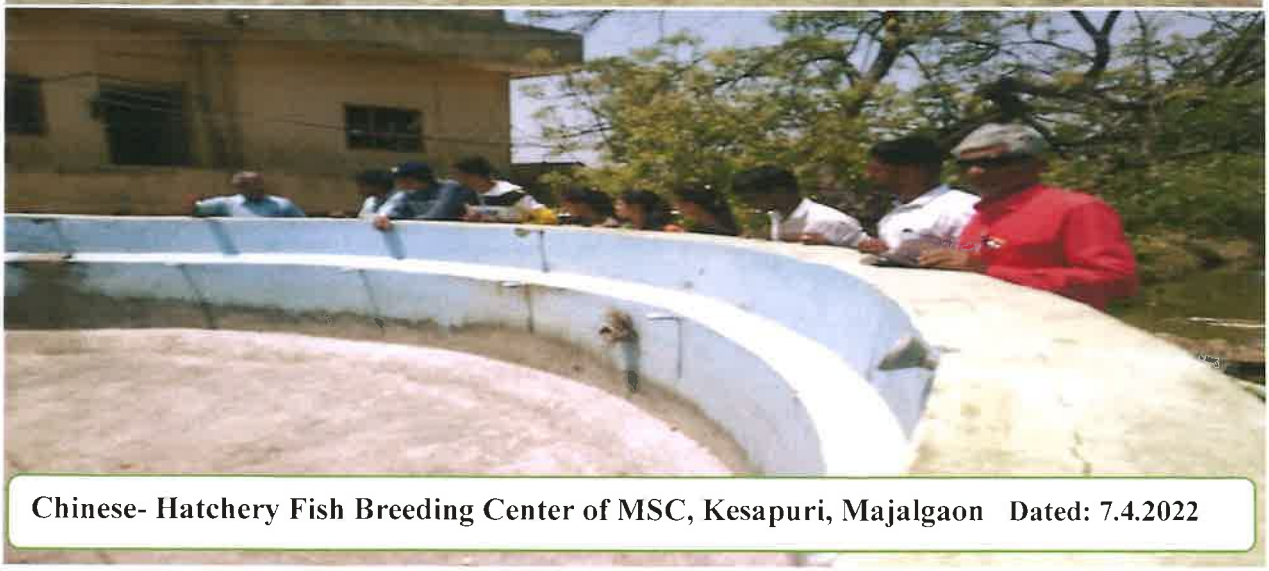
Principal
Swa.Sawarkar Mahavidyalaya
Beed

Maharashtra Fish- Seed Center, Kesapuri Majalgaon Dated: 7.4.2022

Maharashtra Fish- Seed Center, Kesapuri Majalgaon Dated: 7.4.2022

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed



Chinese- Hatchery Fish Breeding Center of MSC, Kesapuri, Majalgaon Dated: 7.4.2022

Swa. Sawarkar Mahavidyalaya B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Fish-Seed (spawn) collection Center at Kesapuri, Majalgaon Dated: 7.4 .2022

Stocking Pond for Large sized fishes of MSC, Kesapuri, and Majalgaon Dated: 7.4 .2022

Chinese- Hatchery Fish Breeding Center of MSC, Kesapuri, Majalgaon Dated:7. 4.2022

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Identification of healthy fishes for Breeding, (MSC, Kesapuri, Majalgaon Dated 7.4.2022)

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai * Beed *

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Observation of planktons & fish food (MSC, Kesapuri, Majalgaon Dated:7.4.2022)

Swa. Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Visit to raring & stocking ponds (MSC, at Kesapuri, Majalgaon Dated:7.4.2022)

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Fish-Food (MSC, Kesapuri, Majalgaon Dated:7.4.2022)

Fish-Food (MSC, Kesapuri, Majalgaon Dated:7.4.2022)

Swa.Sawarkar Mahavidyalaya B.S.P.S. Majalgaon Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Vote of Thanks (MSC, Kesapuri, Majalgaon Dated: 7. 4. 2022

Final Group Photo (MSC, Kesapuri, Majalgaon Dated: 7.4.2022)

Swa. Sawarkar Mahavidyalaya ★ Beed ★ B.S.P.S. Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Established-1995

BhartiyaShikshanPrasarakSantha's, Ambajogai

Swa. Sawarkar Mahavidyalaya,Beed

(Art's, Science & Commerce)

NAAC– RE-ACCREDITED GRADE-B

Dr. P.D. Pohekar

M.A.,SET,M.Phil.,Ph.D.

•Website: https://www.sawarkarcollegebeed.edu.in

•E-mail: veersawarkarbeed@gmail.Com

Following activities were carried out during the assessment period 2018-2023 by **Department of Physics, Swa. Sawarkar Mahavidyalaya, Beed** with the collaboration partner Crystal **Growth Research laboratory, Milliya Mahavidyalaya, Beed.**

Sr. No.	Collaborative Activity	Participants	Nature of Collaboration	Academic Year
1	Physics-Maths Knowledge test-2022-23	Disha Chajed-B.Sc.-I Mrudula Walvadkar-B.Sc.-I Shubham Khatikmare-B.Sc.-III Raghuvendra Kulkarni-III Swapnil Shrinivas Bagade- B.Sc.-III Sunil Mahadev Kale-B.A.-II	Student Exchange	2022-23
2	Research Publication	Dr. Swati S. Kulkarni , S. S. Hussaini	**Joint Manuscript:** Optimization of Aluminium Doping Concentration in Titanium Dioxide Nanoparticles Photo Anode for Enhancing Efficiency of Dye-Sensitized Solar Cell	2020-21

Dr. Rupali B. Kulkarni

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Swa.Sawarkar Mahavidyalaya,Beed B.S.P.S Ambajogai

Principal
Milliya Arts Science & Mang. Science College,Beed.

Dr.Hussaini Syed Shaukatullah
Associate Professor & Head
Research Guide in Physics
Crystal Growth Lab, Dept.of Physics
Milliya Arts, Science &
Management Science College, Beed

3	**Research Publication**	**Dr. Rupali B. Kulkarni , S. S. Hussaini, R.N. Shaikh**	**Joint Manuscript:** Integrity in linear and nonlinear optical properties of L-tyrosine doped bis thiourea cadmium acetate single crystal	**2020-21**
4	**Research Publication**	**Dr. Rupali B. Kulkarni S. S. Hussaini, R.N. Shaikh**	**Joint Manuscript:** Role of dopant L-Methionine concentration in modifying optical properties of parent Zinc Thiourea Sulphate Nonlinear crystal	**2020-21**
5	**Research Publication**	**Dr. Rupali B. Kulkarni S.S.Hussaini**	**Joint Manuscript:** Focusing Nonlinear Optical Traits of Parent & L-Tryptophan Doped Bis Thiourea Cadmium Acetate (TR-BTCA) Crystal for NLO	**2020-21**
6	**Research Publication**	**Dr. Swati S. Kulkarni , S. S. Hussaini**	**Joint Manuscript :** Low cost Carbon Cathode for Natural Dye Sensitized Solar Cell	**2019-20**
7	**Research Publication**	**Dr. Rupali B. Kulkarni S.S.Hussaini**	**Joint Manuscript :**Exploring the impressive nonlinear optical and dielectric properties of cadmium thiourea acetate crystal doped with oxalic acid	**2019-20**
8	Research Publication	**Dr. Rupali B. Kulkarni S.S.Hussaini R.N. Shaikh**	**Joint Manuscript :** Studies on linear optical properties of Potassium Chloride doped Bis Thiourea Cadmium Acetate Crystals	**2019-20**
9	Research Publication	**Dr. Rupali B. Kulkarni S.S.Hussaini**	**Joint Manuscript :** Evaluation Of Optical Traits Of Urea Doped Thiourea Zinc Sulphate (U-ZTS) Metal Complex Crystal For NLO Applications	**2019-20**
10	Research Publication	**Dr. Rupali B. Kulkarni S.S.Hussaini R.N. Shaikh**	**Joint Manuscript:** Focusing Growth and Characterization Studies of Potassium Chloride (KCL) doped Bis thiourea Cadmium Acetate (BTCA) Single Crystals.	**2019-20**
11	Research Publication	**Dr. Swati S. Kulkarni , S. S. Hussaini**	**Joint Manuscript:** Electrochemical Impedance Spectroscopic Study Of Dye Sensitized Solar Cell With Al Doped Tio2 Nano-particles Photo Anode Sensitized By Eosin Y Dye	**2018-19**

Dr. Rupali B. Kulkarni

Dr. Hussaini. Ss

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Swa. Sawarkar Mahavidyalaya, Beed. B.S.P.S Ambajogai

Principal
Milliya Arts Science & Mang
Science College, Beed.

12	Research Publication	**Dr. Swati S. Kulkarni , S. S. Hussaini**	**Joint Manuscript :**Dye sensitized solar cell based on environmental friendly eosin Y dye and Al doped titanium dioxide nano particles	**2018-19**
13	Research Publication	**Dr. Swati S. Kulkarni , S. S. Hussaini**	**Joint Manuscript :** Natural Hibiscus Dye and Synthetic Organic Eosin Y Dye Sensitized Solar Cell Using Titanium dioxide Nano-Particles Photo-anode: comparative study", Surface Review Letter,1850164	**2018-19**
14	Research Publication	**Dr. Swati S. Kulkarni , S. S. Hussaini**	**Joint Manuscript :** Microwave Assisted Synthesis of Aluminium Doped Titanium Dioxide Nanoparticles for Photovoltaic Application	**2018-19**
15	Research Publication	**Dr. Rupali B. Kulkarni S. S. Hussaini,**	**Joint Manuscript :** Tuning optical properties of cadmium thiourea acetate nonlinear optical crystal exploiting organic ligand of L-proline	**2018-19**
16	Research Publication	**Dr. Rupali B. Kulkarni S. S. Hussaini,**	**Joint Manuscript :** Illustrious influence of amino acid L-threonine(LT) on structural and optical insights of Zinc Thiourea Sulphate (ZTS) crystal"	**2018-19**
17	Research Publication	**Dr. Rupali B. Kulkarni S. S. Hussaini,**	**Joint Manuscript :** Crystal growth, spectral, optical and thermal studies of thiourea ammonium acetate doped potassium dihydrogen phosphate crystal for NLO applications	**2018-19**
18	Research Publication	**Dr. Rupali B. Kulkarni S. S. Hussaini,**	**Joint Manuscript :** Magnificent transmutation in optical traits due to methionine doping on zinc thiourea sulphate (zts) metal complex crystal	**2018-19**
19	Research Publication	**Dr. Rupali B. Kulkarni S. S. Hussaini,**	**Joint Manuscript :** Focusing superiority of s-r method grown crystal over conventionally grown thiourea zinc acetate (tza) metal complex crystal	**2018-19**

Dr. Rupali B. Kulkarni

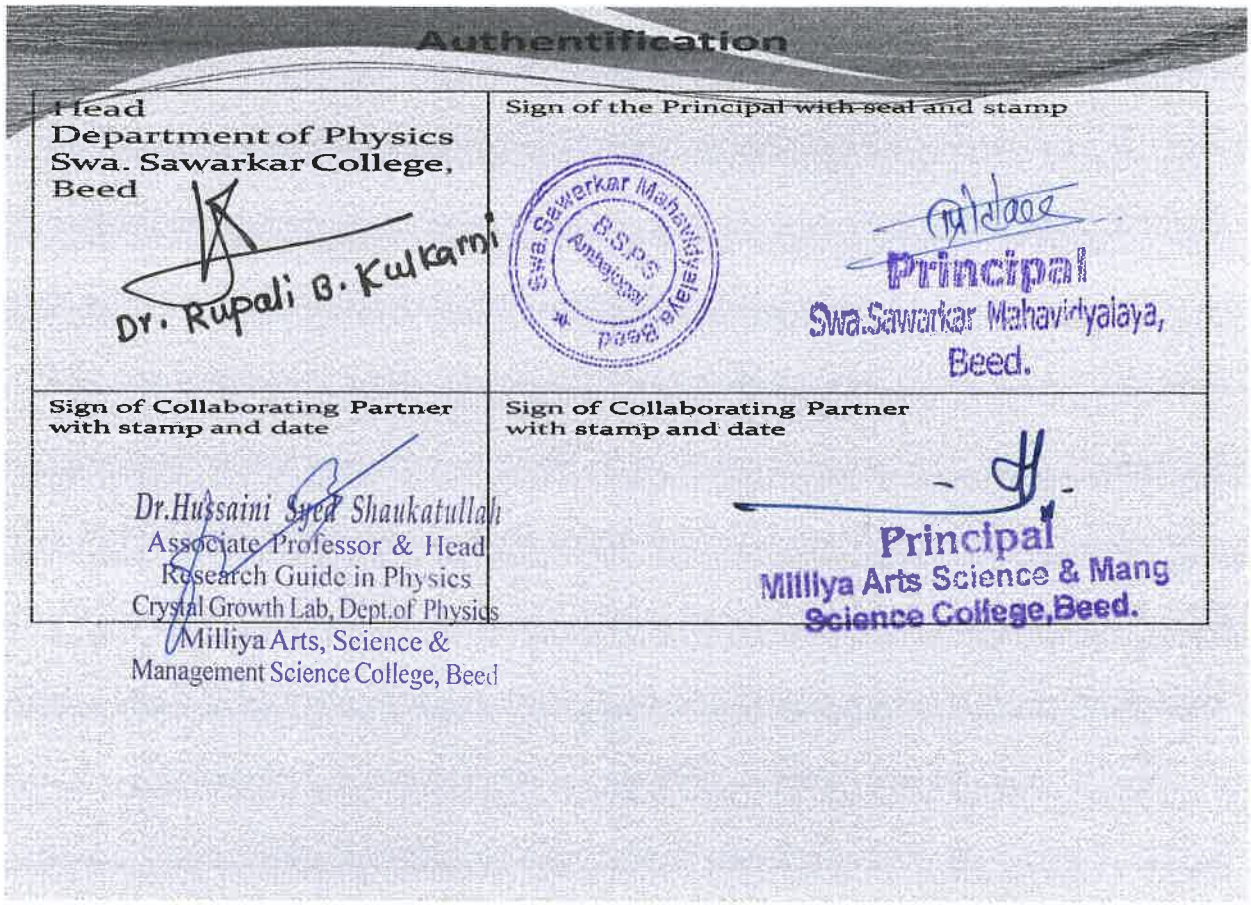
Dr. Hussaini. S. S

Principal
Swa Sawarkar Mahavidyalaya,
Beed.

Swa.Sawarkar Mahavidyalaya, Beed. B.S.P.S Ambajogai

Principal
Milliya Arts Science & Mang. Science College,Beed.

20	Research Publication	**Dr. Rupali B. Kulkarni** **Dr. S. S. Hussaini**	**Joint Manuscript :**Study of Bis Thiourea zinc Sulphate Doped Potassium Dihydrogen Phosphate Crystal	**2018-19**
21	Research Publication	**Dr. Rupali B. Kulkarni** **Dr. S. S. Hussaini**	**Joint Manuscript :** Thiourea Metal Complex Crystal for AR Coating in Solar Thermal Devices	**2018-19**



15/11/2017

(5)

SCIENTIFIC AND EDUCATIONAL COOPERATION
BETWEEN
CRYSTAL GROWTH LABORATORY,
DEPARTMENT OF PHYSICS, MILLIYA ARTS, SCIENCE AND MANAGEMENT SCIENCE COLLEGE BEED
AND
SWA. SAWARKAR MAHAVIDYALAYA, BEED

With the view of STRONGER TOGETHER and a desire to promote and develop the activities between the Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science and management Science College Beed and Department of Physics, Swa. Sawarkar Mahavidyalaya, Beed. Both agreed to the following statement of intent on educational and research co-operation. The co-operation in specific areas may be designed by mutual consent and incorporated in to specific additional agreements upon signature by the appropriate authorities of the institutions.

Two laboratories (mentioned above) agree to the following general areas of interest and co-operation:

a. exchange of research ideas to conduct research of mutual interest;
b. joint research projects in the field of crystal growth and characterization;
c. joint promotion of each other's capabilities;
d. joint use of research facilities;
e. Joint publications.

SSKulkarni Valid for 5 years

Smt. S.S. Kulkarni
Assistant Professor,
Dept of Physics,
Swa. Sawarkar Mahavidyalaya

15/11/2017

Dr. Hussaini Syed Shuaibatulla
Head of Dept. (Physics)
Milliya Arts, Science & Management
Science College Beed. 431122

Dr. S. S. Hussaini
Assistant Professor,
Crystal Growth laboratory,
Dept of Physics,

15/11/2017

भा.शि.प्र.संस्था,अंबाजोगाई
स्वा. सावरकर महाविद्यालय, बीड
सावरकर नगर, नेत्रधाम हॉस्पीटल समोर,
जालना रोड, बीड-४३११२२
नॅक समितीतर्फे 'ब' दर्जा प्राप्त

B.S.P.Sanstha Ambajogai
Swa. Sawarkar Mahavidyalaya
Beed-431122
NACC Re-accredited 'B' Grade
Phone : 02442-295459
Email-veerssawarkarbeed@gmail.com
Web Site : sawarkar.co.in

Principal Dr. Priti D. Pohekar
M.A.,SET, M.Phil, Ph.D.

जा.क्र: / २०२२-२०२३/ 233-1 दिनांक: 15/11/2022

Memorandum of Understanding

Between

AnjumanIshat-e-TaleemBeed's

Milliya Arts, Science and Management Science College, Beed

And

Swa. Sawarkar Mahavidyalaya, Beed.

This Memorandum of Understanding (MOU) sets for the terms and understanding between the **Milliya Arts, Science and Management Science College, Beed** and the **Swa. SawarkarMahavidyalaya, Beed.** in the area of Research activities, visiting faculty, Internal Quality Assurance Cell (IQAC) and student exchange.

Background

Collaborative works between academic institutes have become a key of success in educational efforts. It plays vital role in research and educational fields. It encourages towards excellent research working attitude.

Purpose

The general objective of this Memorandum of Understanding (MOU) is to encourage and facilitate the development of collaborative and mutually beneficial research and educational programs which serve to enhance the research development and intellectual life on both campuses, and to increase contribution in research and educational fields. Thus,**Milliya Arts, Science and Management Science College** and **Swa. SawarkarMahavidyalaya, Beed,** have agreed that in support of their mutual interests in the field of education and research.

The above goals will be accomplished by undertaking the following activities:

By providing help in the area of

1) **Research activities**
2) **IQAC**
3) **Visiting faculty**
4) **Student Exchange**

Funding

This MOU is not a commitment of funds.

Duration

This MOU is at-will and may be modified by mutual consent of authorized officials from **Milliya Arts, Science and Management Science College, Beed,** and **Swa. SawarkarMahavidyalaya, Beed.**

This agreement will take effect from the date of its signing by the authorized officials from Principal, **Milliya Arts, Science and Management Science College, Beed** and Principal,**Swa. Sawarkar Mahavidyalaya, Beed,** and shall be valid for **Five (05) years** from that date of signing, and will remain in effect until modified or terminated by partners through mutual consent.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Prof. Priti Diliprao Pohekar
Principal
B.S.P. Santha's
Swa. SawarkarMahavidyalaya, Beed,
Maharashtra

Principal
Milliya Arts Science & Mang
Science College,Beed.

Dr.Mohammed IlyasFazil
Principal
AnjumanIshat-e-TaleemBeed's
Milliya Arts, Science and
Management Science College, Beed

Swa.Sawarkar Mahavidyalaya Beed
Office Seal

Milliya Arts, Science & Management Science College * Beed *
BEED

Anjuman Ishat -E- Taleem Beed's

Milliya Arts, Science & Management Science College, Beed (MS) India

Science Forum, Department of Physics & Mathematics Organised

11th Ahemad Bin Abood Memorial National Level Online Physics-Maths Knowledge Test-2023

List of Student Participants qualified for Phase-II with their Rank in Phase-I

Rank	Score	Full Name (IN CAPITAL LETTERS)	Name of the College
1	45 / 50	MRUDULA BASWASHWAR WALVADKAR	SWA. SAWARKAR COLLEGE, BEED
2	44 / 50	SHUBHAM KHATIKMARE	SWA. SAWARKAR COLLEGE, BEED
2	44 / 50	KULKARNI RAGHVENDRA SANJAY	SWA. SAWARKAR COLLEGE, BEED
2	44 / 50	DISHA AJITJI CHHAJED	SWA. SAWARKAR COLLEGE, BEED
2	44 / 50	SWAPNIL SHRINIVAS BAGADE	SWA. SAWARKAR COLLEGE, BEED
3	43 / 50	SHREYAS YOGESH GORE	H.V. DESAI COLLEGE, PUNE
3	43 / 50	ADITYA MAHENDRA PAWAR	MAHARASHTRA INSTITUTE OF TECHNOLOGY, AURANGABAD
4	42 / 50	SUNIL MAHADEV KALE	SWA. SAWARKAR COLLEGE, BEED
4	42 / 50	DHEPALE SUSHMITA SANJAY	SSGM COLLEGE, KOPARGAON
4	42 / 50	KHADIJA PATANWALA	ABEDA INAMDAR SENIOR COLLEGE, PUNE
4	42 / 50	MUSTAQEEM SIDDIQUI	MAULANA AZAD COLLEGE, AURANGABAD
4	42 / 50	SAKSHI BALASAHEB SELMOKAR	MAHARASHTRA INSTITUTE OF TECHNOLOGY, AURANGABAD
5	41 / 50	SHEREBANU ABEDANWALA	ABEDA INAMDAR SENIOR COLLEGE, PUNE
5	41 / 50	CHOUDHARI TANZILA MD SHAFI	ABEDA INAMDAR SENIOR COLLEGE, PUNE
6	40 / 50	SAYYED MUSTAQEEM SAYYED SADIQ	MAULANA AZAD COLLEGE, AURANGABAD
6	40 / 50	LAXMI MAURYA	ABEDA INAMDAR SENIOR COLLEGE, PUNE
6	40 / 50	TANZILA ABDUL SATTAR PATEL	ABEDA INAMDAR SENIOR COLLEGE, PUNE
6	40 / 50	SHAIKH ASRAR AHMAD AFSAR AHMAD	BALBHIM COLLEGE, BEED
7	39 / 50	MOHAMAD USMAN ABDUL MAJEED	MAULANA AZAD COLLEGE, AURANGABAD
7	39 / 50	SURAJ DILIP JAWALE	H.V. DESAI COLLEGE, PUNE
7	39 / 50	SYEDA FAIZA FATEMA SYED FAROOQ	MILLIYA ARTS, SCIENCE & MANAGEMENT SCIENCE COLLEGE, BEED
7	39 / 50	MUSFIRA ANAM SHAIKH HAMEED	MILLIYA ARTS, SCIENCE & MANAGEMENT SCIENCE COLLEGE, BEED
7	39 / 50	SAYYED IRAM ARA SHAFI	ABEDA INAMDAR SENIOR COLLEGE, PUNE
7	39 / 50	MORE JAGRUTI ASHOK	SSGM COLLEGE, KOPARGAON
7	39 / 50	SHAIKH JOHARA AKBAR	ABEDA INAMDAR SENIOR COLLEGE, PUNE
7	39 / 50	ADAK MIKI JAGANNATH	ABEDA INAMDAR SENIOR COLLEGE, PUNE
8	38 / 50	AGLAVE ASHITOSH RAMESH	RAJARSHI SHAHU COLLEGE, LATUR
8	38 / 50	LANDGE RUTUJA BHAUSAHEB	SN ARTS, DJ MALPANI COMMERCE & BN SARDA SCIENCE COLLEGE, SANGAMNER
8	38 / 50	VAISHNAVI SHIVAJI GHUGE	SANGAMNER COLLEGE, SANGAMNER
9	37 / 50	GHODE UJJWALA KISAN	ADV. MN DESHMUKH COLLEGE, RAJUR
9	37 / 50	PATHAN SABA AAYUBSAB	RAJARSHI SHAHU COLLEGE, LATUR
9	37 / 50	KHAN AAISHA AJAZ	ABEDA INAMDAR SENIOR COLLEGE, PUNE
10	36 / 50	KALE PUJA SHIVAJI	HRM COLLEGE, RAJGURUNAGAR
10	36 / 50	MAHERUNNISA JAINUDDIN MENDKE	ABEDA INAMDAR SENIOR COLLEGE, PUNE
10	36 / 50	AROTE SNIGDHA DYANESHWAR	SN ARTS, DJ MALPANI COMMERCE & BN SARDA SCIENCE COLLEGE, SANGAMNER

Dr. Hussaini S.S.
Organizing Secretary

Mr. Momin Fasiyoddin
Convener

Dr. Mohammad Ilyas Fazil
Principal

Principal
Milliya Arts Science & Mang.
Science College,Beed.

Dr. Swati ... Physics. 2020-21 (2)

Dept. of Physics
Collaborative Activity

International Journal of Nanoscience
Vol. 19, No. 6 (2020) 2050009 (8 pages)

DOI: 10.1142/S0219581X2050009X

Optimization of Aluminium Doping Concentration in Titanium Dioxide Nanoparticles Photo Anode for Enhancing Efficiency of Dye-Sensitized Solar Cell

Swati S. Kulkarni*,†,¶, Gajanan A. Bodkhe*,‖, Pasha W. Sayyad*,**, Megha A. Deshmukh‡,††, S. S. Hussaini§,‡‡ and Mahendra D. Shirsat*,§§

*RUSA Centre for Advanced Sensor Technology
Department of Physics, Dr. Babasaheb
Ambedkar Marathwada University
Aurangabad 431004, Maharashtra, India

†Department of Physics, Swa. Sawarkar Mahavidyalaya
Beed 431122, Maharashtra, India

‡School of Physical Sciences
Solapur University, Solapur 413255
Maharashtra, India

§Crystal Growth Laboratory
Department of Physics, Milliya Arts
Science and Management Science College
Beed 431122, Maharashtra India

¶swatipaperpublishing@gmail.com
‖gabodkhe@gmail.com
**Psayyad78@gmail.com
††Megha05.deshmukh@gmail.com
‡‡shuokionline@rediffmail.com
§§mdshirsat@gmail.com

Received 2 November 2018
Accepted 6 January 2020
Published 29 September 2020

Well crystallized Aluminium (Al) doped Titanium dioxide (TiO_2) nanoparticles with various doping concentration (0, 0.05 M, 0.07 M, 0.09 M and 0.11 M) were synthesized successfully by sol–gel route to develop the photo anode of Dye Sensitized Solar Cell (DSSC). Anatase crystalline nature of TiO_2 nanoparticles was confirmed using X-ray diffraction (XRD) and Raman spectrophotometer. The Atomic Force Microscopy (AFM) was used to investigate the morphology of the photo anode (Al-doped TiO_2 nanoparticles). The photovoltaic performance of the DSSC in terms of Current, Voltage and efficiency was investigated with a standard illumination of AM1.5G having an irradiance 100 mW/cm^2. Optimized values of Short Circuit Current density (I_{sc}), Open Circuit Voltage (V_{oc}) and efficiency (η) obtained was 247.62 μA/cm^2, 359 mV and 0.02456%, respectively for 0.07 M Al doping concentration. Eco-friendly Eosin

290

Dept. of physics 2020-21

Collaborative publication

3

FERROELECTRICS
2021, VOL. 573, 52–62
https://doi.org/10.1080/00150193.2021.1890463

Taylor & Francis
Taylor & Francis Group

Integrity in linear and nonlinear optical properties of L-tyrosine doped bis thiourea cadmium acetate single crystal

Siddique Aneesa-Fatema[a], Y. B. Rasal[a], R. N. Shaikh[a], M. D. Shirsat[b], S. S. Hussaini[a], and R. B. Kulkarni[b]

[a]Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science and Management Science College, Beed, Maharashtra, India; [b]RUSA Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India

ABSTRACT

The slow evaporation technique was adopted for the growth of L-tyrosine doped Thiourea (Bis) Cadmium Acetate (CTA) single crystal. The doped crystals were characterized by powder X-ray diffraction, FT-IR analysis, SHG Studies, UV-vis and Vickers microhardness studies. The UV-visible absorption spectrum is found to have improved optical parameters than pure CTA. The optical study revealed that the doped CTA crystal has high transmission with low cut off wavelength of 290 nm. The optical band gap was found to be 4.14 eV. The Second harmonic generation efficiency measured using Nd-YAG laser is 3.64 times higher than pure CTA.

ARTICLE HISTORY
Received 25 April 2020
Accepted 10 August 2020

KEYWORDS
Crystal growth; FT-IR; Kurtz-Perry powder technique; nonlinear optical materials

1. Introduction

The organic crystals are used in the crystal growth due to its crystalline structure and fascinating optical properties. The organic crystal plays important role to enhance the nonlinear optical (NLO) properties [1, 2]. The NLO property depends on the donor and acceptor properties of charges and delocalization among the crystal. The non-centrosymmetric is the fundamental technique to elaborate the NLO property. The thiourea produces non-centrosymmentric behavior in the crystals when combines with metal compounds. The large dipole moment and ability to form hydrogen bonding network of thiourea helps to improve nonlinearity in the crystal. The physicochemical stability and breaking of ligands into the crystal plays important role in improving NLO properties [3]. Now a day's different techniques developed to grow crystals with remarkable enhancement in different properties to be used in the technological application in optical communication mechanism [4–6]. The Semi organic material possesses high second and third order nonlinear intensity, integral laser damage threshold factor, better thermal stability and holds good microhardness coefficient [7]. L-tyrosine contains the proton donor carboxyl acid (COO) group and the proton acceptor amino (NH_2) group present in the amino acids improves linear and nonlinear scales of the crystal [8, 9]. In recent year amino acid doped in different materials enhances the second and third order properties and shows better electrical, photonic and thermal properties. The Effects of the addition of L-lysine monohydrochloride dihydrate on the growth and various properties of ADP single-crystal studied and grown crystal by using slow evaporation method have been studied. The effect of doping was

CONTACT S.S. Hussaini shuakionline@yahoo.co.in

Dept. of Physics 2020-21
Collaborative Activity

INTERNATIONAL JOURNAL FOR INNOVATIVE RESEARCH IN MULTIDISCIPLINARY FIELD ISSN: 2455-0620 Special Issue : 21, Jan – 2021
Monthly, Peer-Reviewed, Refereed, Indexed Journal with IC Value: 86.87 Impact Factor: 6.719 Publication Date: 31/01/2021

Role of dopant L-Methionine concentration in modifying optical properties of parent Zinc Thiourea Sulphate Nonlinear crystal

Siddique Aneesa Fatema[a], Rupali B. Kulkarni[b], I.N.Shaikh[a], Mahendra D.Shirsat[b], S. S. Hussaini[a*]

[a]Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed-431122, Maharashtra, India.

[b]RUSA Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad – 431004 (MS) INDIA

E-mail address: shuakionline@yahoo.co.in

Abstract: The recent investigation was aimed to explore the influence of varying concentration of amino acid L-methionine on decisive optical properties of zinc thiourea sulphate (ZTS) crystal. The traditional slow solvent evaporation technique has been adapted to grow L-methionine zinc thiourea sulphate (LM-ZTS) crystal at room temperature. The influence of 0.2 M% &0.3M % L- Methionine on optical transparency and optical constants of ZTS crystal in range of 200-900 nm has been ascertained by means of UV visible spectral analysis, to discuss the technological impetus of mixed crystal for optical devices. The optical study revealed that 0.2 M % LM-ZTS crystal has higher transmission with lower cut off wave length. The extinction coefficient, refractive index, reflectance and polarizability of 0.2 M % LM-ZTS found to belower than 0.3 M % LM-ZTS crystal. Also the direct band gap determined by the Tauck's plot method of 0.2 M % LM-ZTS is wider than 0.3 M % LM-ZTS. All these parameters show the usability of LM- ZTS crystal for various opto-electronic device applications.

Keywords: crystal growth, extinction coefficient, optical constant.

1. INTRODUCTION:

In past decade many research groups have done extensive research on semi organic thiourea metal complexes. Among thiourea metal complex pure and doped zinc thiourea sulphate outstands as a potential candidate that seeks huge demand in technologies like high power lasers, opto-electronics, frequency conversion, high speed information processing [1-3]. Amino acid play a vital role in the field of NLO crystal as they exhibit natural chiral properties and crystallize in the non-Centro symmetric space group, which are an essential criteria for nonlinearoptical device applications. The enhancement in different characteristics properties of ZTS crystals has been evident from literature due to addition of L-cysteine, L-serine, Nd^{3+}, urea [4-7]. Thus in order to imitate foresaid desirable properties amino acid L-methionine is doped in different concentration in ZTS crystal by employing UV visible spectral analysis and its detail optical parameters to confirm its superiority for various opto-electronics applications.

2. EXPERIMENTAL PROCEDURE:

Zinc thiourea sulphate (ZTS) salt was synthesized by gradually dissolving merck made analytical reagent (AR) grade zinc sulphate and thiourea in double distilled water in the molar ratio of 1:3. The recrystallization of technique has been used to enhance the purity of ZTS salt. Amino acid L- methionine with 0.2 mole% and 0.3mole% was added into the super saturated solution of ZTS with constant stirring for 4 hours. The 0.2 mole% and 0.3mole% LM-ZTS solution was filtered using whatmans filter paper in a beaker and kept for slow evaporation at ambient temperature. The grown crystalsof 0.2 mole% and 0.3mole% LM-ZTS were obtained within a period of 20 days as shown in **Fig.1.**

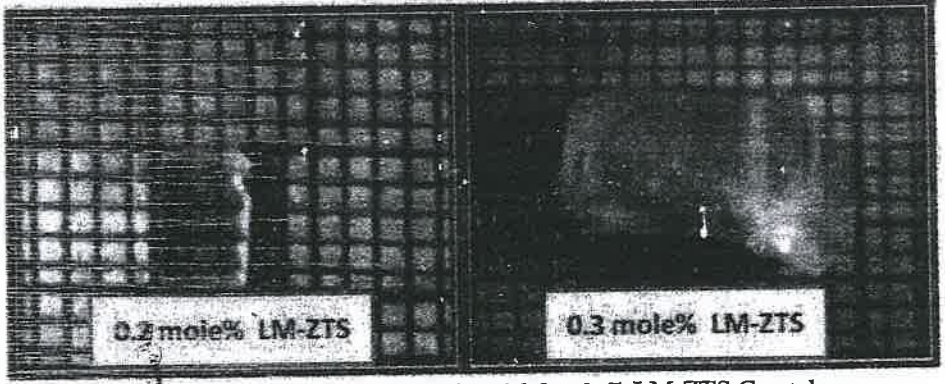


Fig.1. Photograph of 0.2 mole% and 0.3mole% LM-ZTS Crystals.

Dept. of physics 2020-21
Collaborative publication

International Journal of Interdisciplinary Innovative Research &Development (IJIIRD)
ISSN: 2456-236X
Vol 05 Special Issue 01 | 2020

Focusing Nonlinear Optical Traits of Parent & L-Tryptophan Doped Bis Thiourea Cadmium Acetate (TR-BTCA) Crystal for NLO Applications

Siddique Aneesa Fatema[1], Rupali B. Kulkarni[2], Mahendra D.Shirsat[3], S. S. Hussaini[4]

[1] Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed-431122, Maharashtra, India.
[2][3][4] RUSA Centre for Advanced Science and Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad – 431004 (MS) INDIA

ABSTRACT

Recent scenario deals with the requirement of good quality crystals for the nonlinear optical (NLO) device applications. Hence present manuscript explores the growth of parent & L-Tryptophan doped Bis Thiourea Cadmium Acetate (TR-BTCA) Crystal by conventional slow evaporation solution growth method. Paper demonstrates the study of comparative nonlinear optical properties such as optical conductivity, extinction coefficient, reflectance and refractive index of parent & L-Tryptophan doped Bis Thiourea Cadmium Acetate (TR-BTCA) Crystal. The evaluated nonlinear optical parameters confirmed the superiority of L-Tryptophan doped Bis Thiourea Cadmium Acetate (BTCA) crystal over parent Bis Thiourea Cadmium Acetate (TR-BTCA) Crystal for application in laser assisted NLO applications.

Keywords: *Crystal growth, Extinction coefficient, optical conductivity,Reflectance, Refractive index*

1. INTRODUCTION

Nonlinear optical (NLO) crystals seek large demand for developing the cutting edge technological accessories utilized in data storage, digital communication systems, optical switching, laser fusion, photonics, optoelectronics and laser frequency conversion device applications [1–3]. Designing, engineering and growth of perfect nonlinear optical crystals delivering extraordinary characteristics has become a challenging task for researchers in the current scenario. All optical device applications concurrently desire excellent optical (UV–visible), SHG efficiency, luminescence, third order nonlinear optical), crystalline perfection, thermal stability and electrical (dielectric) properties [4]. Tremendous efforts have been taken since past few decades for designing a new class of organo-metallic nonlinear optical crystals. In organometallic crystals a large variety of thiourea metal complex crystals have been reported [5,6] amongst which the Bis thiourea Cadmium acetate (BTCA) deserves more attention due to its orthorhombic crystal structure, appreciable linear-nonlinear optical properties, hardness, electrical and thermal properties as evident in literature. With the aim of achieving improved quality CTA crystal; several researchers attempted a technique of doping additives Zn, Mn(II), NMU, Glycine, Alanine, Valine, Cystein [7-16].

L-tryptophan contains an α amino group, and α carboxylic acid group with 1five membered ring with a nitrogen atom bounded to a benzene ring called as in dole ring present in side chain of molecule making it an non polar aromatic amino acid L tryptophan exhibits non exponential fluorescence decay in aqueous solution and this has been explained by the emission from non interconnecting rotamers which has different life times due to different rate of intermolecular charge transfer [17].

Hence present study aimed to grow the parent bis thiourea cadmium acetate (BTCA) and L-tryptophan doped bis thiourea cadmium acetate (TR-BTCA) crystal by slow evaporation solution growth technique and thus to study the effect of amino acid L- tryptophan on nonlinear optical properties of BTCA.

Dr. Swati S. Kulkarni 2019-20
Physics

INNOVARE JOURNAL OF SCIENCES
Vol 8, Special Issue 1, 2020
ISSN-2321-5496

Full Proceeding Paper

LOW COST CARBON CATHODE FOR NATURAL DYE SENSITIZED SOLAR CELL

SWATI S. KULKARNI*[1, 2], S.S. HUSSAINI[2], N.N. SHEJWAL[3]

[1]Department of Physics, Swa. Sawarkar Mahavidyalaya, Beed 431122 (MS) India., [2]Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed-431122 (MS) India., [3] AISSM college of engineering, Pune – (MS) India.
Email: meerachothwe@gmail.com

Received: 25 January 2020, Revised and Accepted: 17 March 2020

ABSTRACT

Objective: Platinum film on fluorine doped tin oxide (FTO) glass surface has been used commonly in the research of dye sensitized solar cells (DSSCs). However, cost of platinum is too high to fabricate a cost effective ecofriendly DSSC. The current study has been done to replace the high cost platinum counter electrode by low cost carbon electrode.

Material and Method: TiO2 nanoparticles has been synthesized and used to synthesize Photo anode of DSSC on fluorine doped tin oxide (FTO) glass surface. Platinum and Carbon cathodes has been synthesized on fluorine doped tin oxide (FTO) glass surface fabricated and their photovoltaic properties have been compared. Area of the cathode and anode has been maintained 1square centimeter.

Results: Study of DSSCs reveals, carbon cathode can successfully replace the platinum cathode as efficiencies of DSSCs have been found to be more using carbon cathode as compare to the platinum cathode. Ecofriendly Eosin Y dye sensitized TiO_2 nanoparticles photo anode has been used for the fabrication of DSSC.

Conclusions: Investigation leads to the conclusion that carbon cathode can replace the platinum cathode in dye sensitized solar cell.

Keywords: Dye sensitized solar cell, TiO_2 nanoparticles photo anode, carbon cathode, eosin Y dye

INTRODUCTION

Dye sensitized solar cells (DSSC), are the third generation hybrid solar cells offer a particular promise as an efficient, low cost alternative to the silicon semiconductor solar cells. Since the working principle of DSSC is the mimicry of natural photosynthesis process, DSSC is the most promisingly environmental benign solar cells [1]. Unlike the silicon solar cells, DSSC uses sensing dye for light harvesting and electron transport, which allows researchers to fine tune each component separately and to optimize the device performance. Along with environmental friendliness, DSSCs poses the attractive properties like, flexibility, multicolored and hence aesthetics [2].

In a typical DSSC, light photons are absorbed by a sensitizer, which is adsorbed to the surface of wide band gap semiconductor oxide. The sensitized nano particles of semiconductor in combination with the electrolyte and counter electrode produce the regenerative cycle of photo electrochemical cell [3]. Literature study reveals, most often Titanium oxide (TiO_2) photo anode sensitized by ruthenium complex dye and the platinum counter electrode is the typical components of Dye Sensitized Solar Cells (DSSCs) [3]. In our previous studies, Al doped TiO_2 photo anode proved to be fruitful to increment the photovoltaic parameters i.e., photo current and efficiency of the DSSC along with organic Eosin Y dye [4-6]. Eosin Y dye is one of the xanthene dye exhibiting the properties like large absorption and luminescence; low toxicity in-vivo and relatively high solubility in water [7-10].

Counter electrodes (Cathodes) have usually been prepared by depositing a thin layer of platinum (Pt) onto the FTO substrates. The FTO substrate without platinum coating can also work as the counter electrode, however, its charge transfer resistance is very high on the order of mega ohm per square centimeter in iodine-triiodide electrolyte and hence, the platinum layer is deposited on the FTO to work as the catalyst. It reduces the oxidized form of the redox couple in the electrolyte so that the cathode material must be adapted to the redox system in the electrolyte. Although platinum is the most efficient catalyst for counter electrode to date, rarity and high cost of platinum makes it unsuitable for low cost DSSC. Hence, several other materials have also been adopted for the preparation of the counter electrode in DSSCs, such as conducting polymers such as poly (3,4-ethylenedioxythiophene) doped with toluene sulfonate anions, carbon materials and cobalt sulphide, carbon black [8]. Moreover, the platinum being heavy metal costs too high and elevates the overall cost of DSSC [11-12]. Whereas, DSSC comprised of carbon cathode has also found to be exhibiting comparable results to that of the platinum cathode [13-17].

Considering support of these studies, the current study of DSSC comprised of TiO_2 nanoparticles photo anode sensitized by eosin Y dye has been further explored towards the cost effective and environmentally benign DSSC by employing the carbon cathode.

MATERIALS AND METHODS

Materials

Titanium Tetra iso-propoxide (TTIP) (Otto Chemicals, Germany), Eosin Y dye and Chloroplatinic acid (H_2PtCl_6) (Ward Hill, U.S.A.), Aluminium Nitrate ($Al(NO_3)_3$ and Poly-ethylene Glycol (Otto Chemicals, India), Lithium iodide and iodine all reagents were used without further purification.

Synthesis and characterization of TiO_2 nanoparticles

TiO_2 nanoparticles have been synthesized as discribed in previous studies[6] and characterized using FTIR spectra.

DSSC Fabrication and Testing

The DSSCs were assembled as follows: cleaned fluorine-doped tin oxide (FTO, Sigma- Aldrich) conductive glasses of size 2*2 cm^2 have been used as the substrate. The TiO_2 nanoparticles anode has been prepared using doctor blade method and has been sintered at 450ºC for 1 h to enhance the bonding between the semiconductor and the FTO glass. After cooling to 80ºC, the prepared photo anodes have

2019-20 (41) (7)

Available online at www.sciencedirect.com

ScienceDirect

Materials Today: Proceedings 23 (2020) 423–429

materialstoday: PROCEEDINGS

www.materialstoday.com/proceedings

ICMES-2018

Exploring the impressive nonlinear optical and dielectric properties of cadmium thiourea acetate crystal doped with oxalic acid

Rupali B. Kulkarni[a], S. S. Hussaini[b], Mahendra D. Shirsat[a*]

[a]RUSA Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad – 431004 (MS) INDIA
[b]Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed-431122, Maharashtra, India.

Abstract

The present communication is aimed to investigate the remarkably improved properties of oxalic acid (OA) doped bis cadmium thiourea acetate (CTA) crystal. The commercial slow solvent evaporation method has been employed to grow the pure and OA doped CTA crystal. The structure and unit cell parameters of grown crystal were determined by means of powder X-ray diffraction technique, which confirmed orthorhombic crystal structure. The optical transparency of OA doped CTA crystal (78%) has been ascertained in the visible region (200-900 nm) using the UV-visible spectral analysis. The assertive influence of OA on the dielectric behavior of host CTA crystal was investigated in the temperature range 35-120 °C by means of dielectric studies. Doped crystal showed lower dielectric nature than parent. The nonlinear response of OA-CTA crystal was confirmed by Kurtz-Perry test.. The SHG efficiency of OA-CTA crystal is found to be higher than potassium dihydrogen phosphate (KDP) crystal. Obtained results confirmed suitability of OA doped CTA crystal for photonic device applications.

Peer-review under responsibility of the scientific committee of the International Conference on Materials and Environmental Science, ICMES 2018.

Keywords: - Crystal growth, Optical studies, Dielectric studies, Nonlinear optical materials

1. Introduction:

Crystals lie at the root of technology. Materials offering excellent optical, electrical and non-linear optical (NLO) coefficient has been sustained for past few decades due to their wide application in the field of optical signal processing, laser fusion and ultrafast laser systems, UV-tunable lasers, optoelectronics and NLO-assisted photonic devices [1]. Thiourea metal complex (TMC) crystals offer high non-linearity, huge threshold to laser damage, fast electronic response, high mechanical strength and good thermal stability. These qualities qualify this organometallic bond channel possessing materials for designing high edge integrated optical devices [2]. Amongst the various reported TMC crystals like ZTS, ZTC, BTZA, BTCF etc. cadmium thiourea acetate (CTA) is an interesting NLO crystal. The structural, UV-visible, SHG efficiency, photoconductivity, dielectric, photoluminescence, mechanical

* Corresponding author. Tel.: +91-9403585268,
E-mail address: mdshirsat.phy@bamu.ac.in, rbkulkarni9421@gmail.com

Peer-review under responsibility of the scientific committee of the International Conference on Materials and Environmental Science, ICMES 2018.

2019-20 (8)

Our Heritage(UGC Care Listed)
ISSN: 0474-9030 Vol-68, Special Issue-12

National Conference on Recent Trends in Physics, Chemistry and Mathematics (RTPCM-2020) Held on 4th February 2020 Organised by: Department of Physics, Chemistry and Mathematics, Sunderrao Solanke Mahavidhyalaya, Majalgaon, MS

Studies On Linear Optical Properties Of Potassium Chloride Doped BIS Thiourea Cadmium Acetate Crystals.

Siddique Aneesa Fatema[a], R.N. Shaikh[a], R.B Kulkarni[b], Mahendra D.Shirsat[b], S. S. Hussaini[a*]

[a]Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed-431122, Maharashtra, India.
[b]RUSA Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad – 431004 (MS) INDIA
* *Corresponding Author:* Tel.: +91 8484036126
E-mail address: shuakionline@yahoo.co.in

Abstract

Single crystal of Potassium Chloride (KCL) doped Cadmium Thiourea Acetate (CTA) has been grown by slow evaporation solution growth technique. The UV-visible study reveals that doped CTA crystal has high transmission with lower cut off wavelength of 250 nm. The optical band gap was found to be 4.2(eV). The linear optical properties such as refractive index reflectance, extension coefficient and optical conductivity was calculated which shows the applicability of grown crystal for various solar thermal devices and opto-electronic applications.

1) Introduction :-

The search for new and efficient NLO materials has resulted in the development of new class of materials called semi organic materials. Thiourea is centrosymmetric material when it is incorporated in organic materials. It is also an interesting inorganic matrix modifier due to its large dipole moment. Recently researches are focusing on growing metal complexes thiourea related crystals [1]. Thiourea based organic metallic crystal like thioure doped triglycine zinc chloride (TGZC) [2], Urea thiourea chloride zinc chloride, cadmium chloride doped zinc tris thiourea sulphate [3], L-Alanine added cadmium thiourea acetate [4],Calcium Bis thiourea chloride (CBTC), Zinc thiourea sulphate (ZTS) , zinc thiourea chloride(ZTC), BIS thiourea cadmium formate (BTCF), BIS thiourea cadmium Chloride (BTCC), BIS thiourea Zinc

382
Print

Dr. Rupali B. Kulkarni 2019-20
Physics

IOSR Journal Of Applied Physics (IOSR-JAP)
e-ISSN: 2278-4861.Volume 12, Issue 2 Ser. I (Mar. – Apr. 2020), PP 30-34
www.Iosrjournals.Org

Evaluation of Optical Traits of Urea Doped Thiourea Zinc Sulphate (U-ZTS) Metal Complex Crystal for NLO Applications

Siddique Aneesa Fatema[a], Rupali B. Kulkarnib[b], S. S. Hussaini[a*], Mahendra D. Shirsat[b]

[a]*Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed-431122, Maharashtra, India.*
[b]*RUSA Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad – 431004 (MS) INDIA*
** Corresponding Author: S. S. Hussaini*

Abstract: *Present research work focuses on evaluation of the impact of urea doping on thiourea zinc sulphate metal complex crystal (ZTS) Traditional slow evaporation solution growth technique was preferred at ambient temperature for the grow of Urea doped thiourea zinc sulphate(U-ZTS) metal complex crystal. This investigation deals with the study of optical properties transmittance, band gap, refractive index, reflectance, extinction coefficient of Urea doped thiourea zinc sulphate(U-ZTS) metal complex crystal. Kurtz–Perry SHG test pointed the nonlinearity of Urea doped thiourea zinc sulphate(U-ZTS) metal complex crystal.*

Keywords: *Crystal growth, Urea, Thiourea Zinc Sulphate Kurtz–Perry SHG test, extinction coefficient*

Date of Submission: 03-03-2020 Date of Acceptance: 18-03-2020

I. Introduction

Non linear optical (NLO) materials have attracted much attention due to their major role in emerging photonic and opto electronic technology **[1-2]**. The recent search in concentrated on organo –metallic NLO materials due to remixing of large non linearity, high resistance to laser induced damage with good mechanical hardness **[3-4]**. The NLO properties of some cc mplexes of thiourea have attracted significant attention in the last few years because both organic and inorganic compound in it contribute specifically to the process of second harmonic generation **[5 -7]**. Examples of these complexes are Bis thiourea zinc acetate (BTZA) **[8]** and cadmium thiourea acetate (CTA) **[9]**. Urea thiourea mercuric sulphate and Urea thiouyrea mercuric chloride have been already reported. Nonlinear optical (NLO) material Zinc tris (thiourea) sulphate (ZTS) is a best alternative for potassium dihydrogen phosphate crystals in frequency-doubling and laser fusion due to their properties high optical transparency, low refractive index, low reflectance low extinction coefficient .widened band gap. Second harmonic generation efficiency 1.2 times of KDP, growth from solution by slow evaporation **[10-20]**. Urea thiourea mercuric sulphate and urea thiourea mercuric chloride **[21]**. Urea thiourea copper have been already reported **[22]**. In the present investigation attempt have been made to grow optical clear crystal of ZTS doped 0.3M% urea **(U-ZTS)** by slow evaporation technique.

II. Experimental Procedure

Zinc Thiourea Sulphate (ZTS) salt was synthesized using AR grade zinc sulphate and thiourea in 1:3 molar concentration. Prepared salt was further purified by repeated crystallizations. The calculated amount of salt was dissolved in the deionized water to achieve the super saturated solution. 0.3M% urea was doped to the super saturated solution of ZTS and Stirred for 5 hours at constant speed to achieve homogeneity throughout the volume. The purity of 0.3M% urea doped ZTS **(U-ZTS)** is achieved by successive recrystalization . Good quality crystals were grown over period of 30 days. The grown crystal is shown in **Fig 1.**

386

'RESEARCH JOURNEY' International E- Research Journal
Impact Factor - (SJIF) - 6.625 (2019)
Vol. 7, Issue 1
Peer Reviewed Referred & Indexed Journal
E-ISSN : 2348-7143
Jan. Feb. March. 2020

Focusing Growth and Characterization Studies of Potassium Chloride (KCL) Doped Bis Thiourea Cadmium Acetate (BTCA) Single Crystals

Siddique Aneesa Fatema[a], Rupali B. Kulkarni[b], Rais N. Shaikh[a], Mahendra D.Shirsat[b], S. S. Hussaini[a*]

[a]Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed-431122, Maharashtra, India.

[b]RUSA Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad – 431004 (MS) INDIA

* Corresponding Author: Tel.: +91 9325710500

E-mail address: shuakionline@yahoo.co.in

Abstract:-

The crystal of Potassium Chloride doped Bis thiourea Cadmium Acetate (KCL-BTCA) was grown by slow evaporation solution growth technique. The functional groups of grown crystal KCL-BTCA have been identified by FT-IR spectral analysis. The second harmonic generation efficiency of grown KCL-BTCA crystal was analyzed by Kurtz Perry powder test. Third order nonlinearity was estimated using Z-scan technique respectively.

Keywords:-Crystal growth, FT-IR spectral analysis, SHG, Z-scan.

1. Introduction:-

From last two decades, large number of thiourea based organic- metallic crystals with good nonlinear optical, mechanical, thermal properties has been reported. Metal complexes of thiourea are extensively explored due to the Centro symmetric thiourea molecule incorporated into respective salt gives non centro symmetric material. Zinc thiourea chloride (ZTC), Zinc thiourea sulphate (ZTS), Bis thiourea cadmium acetate(BTCA), bis thoiurea calcium chloride(BTCC) etc are the famous crystals reported in the literature[1-2]. Also various properties of BTCA crystal has been investigated by doping variety of amino acids (L-Cystine,L-Alanine etc) [3-4]. S.Selvakumar et al. have reported the influence of Zn^{2+} doping on nonlinear properties and crystalline perfection of CTA crystal [5]. Effect of KCL doping on linear properties of BTCA single crystal have been reported recently in our early communication [6]. In present investigation we report KCL doped CTA to study the SHG efficiency and Z-scan to find its better alternative to other non linear materials. The grown crystal was characterized by various characterization techniques, such as FT-IR studies, SHG tests and Z Scan studies.

2. Experimental Procedures:-

2.1 Synthesis and Crystal Growth:-

The pure crystal of BTCA was synthesis by reacting stoichiometric amount of cadmium acetate and thiourea in the molar ratio 1:2 in deionized water at room temperature. The mixed solution was continuously stirred using magnetic stirrer for 8hrs and then filtered by whatman filter paper to increase purity of the solution. This filtered solution was kept in glass vessel covered with a perforated paper for slow evaporation in dust free atmosphere. The good quality BTCA crystal was harvested. The saturated solution of pure BTCA salt was taken in a clean baker and then 1Mole% of KCL solution was added to BTCA solution for the growth doped

391

collaborative publication 2018-19

International Journal of Advance and Innovative Research
Volume 6, Issue 1 (XIX): January - March, 2019 : Part - 1
ISSN 2394 - 7780

ELECTROCHEMICAL IMPEDANCE SPECTROSCOPIC STUDY OF DYE SENSITIZED SOLAR CELL WITH AL DOPED TIO_2 NANOPARTICLES PHOTO ANODE SENSITIZED BY EOSIN Y DYE

Swati S. Kulkarni [1], Gajanan A. Bodkhe[2], Nikesh Ingle[3], S. S. Hussaini[4], N. N. Shejwal[5] and Mahendra D. Shirsat[6]

[1,2,3,6]RUSA Centre for Advanced Sensor Technology, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

[4]Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed

[5]All India Shri Shivaji Memorial Society's College of Engineering, Pune

ABSTRACT

In the present investigation the electrochemical impedance spectroscopy has been applied to analyse the dye sensitized solar cells (DSSCs). The characteristics of the dye sensitized photo anode has been investigated using various techniques like Atomic force Microscopy, UV visible spectroscopy. Consequently, the measurement of photovoltaic characteristics has been discussed and lastly, the EIS study of fabricated DSSCs have been done in order to analyse the DSSCs using Al doped TiO_2 nanoparticles photo anode sensitized by eosin Y dye which reveals that the DSSC with 0.07M Al doped TiO_2 nanoparticles photo anode has the charge transfer resistance of 138 ohm at the TiO_2/dye/electrolyte interface

Al doped TiO_2, DSSCs, Eosin Y dye, EIS, photo anode

1. INTRODUCTION

Being mimicry of photosynthesis, dye sensitized solar cell has ever accepted as the best solar cell from last few decades [1]. DSSC is an electrochemical device, converting light energy into electrical energy, consist of three active layers namely, dye sensitized nano-crystalline semiconductor layer (known as photo anode), counter electrode and an organic electrolyte containing redox couple sandwiched between prior two layers. Both the semiconductor layer and counter electrode has synthesized usually on the Fluorine doped transparent conducting oxide layer on glass [2]. The highest efficiency ever achieved has been found to be 13% using porphyrin dye [3]. Charge generation and transfer process depends on the nature and compatibility of each layer with another and more particularly on the photo anode [4]. TiO_2 nanoparticles has been proved to be most viable member to synthesize the photo anode owing to its properties like wide band gap, large exciton binding energy, low cost, non-toxic and environmental benign. The absorption in TiO_2 layer can be increased by either doping or adsorbing the dye molecules on its surface [5]. Nanostructure of TiO_2 photo anode provides the sufficiently large surface area for dye adsorption [4]. Further, doping the TiO_2 will form the new valance state, decreases the Band gap, enhances the surface area and creates the charge carrier trapping sites which helps to increase the photo current [6]. Various metals and non-metals and other elements have been tried for doping the TiO_2 in the thrust of enhancing the photo-catalytic activity of TiO_2 photo anode [7]. Aluminium, the transitional metal having good optical quality, low resistivity, high conductance and high crystal qualities, when doped in TiO_2 shifts onset of absorption from UV region to visible region [8-9]. According to the previous optimization it has been observed that the aluminium doping concentration of 0.07M exhibits superior results [10]. Hence, in the current study 0.07M aluminium doped TiO_2 nanoparticles have been synthesized and used to create the photo anode of DSSC.

The basic purpose behind the development of DSSC has been found to investigate a low cost, environmental friendly solar cell through the use of eco-friendly materials and methods [11]. Hence, while designing the DSSC, high efficiency along with the least environmental hazard must be the agenda. Sensitizer used to harvest the photo energy is the crucial parameter on this basis, deciding the response of DSSC. Inorganic metal complex dyes and organic dyes have been intensively investigated by researchers since from last two decades. Inorganic metal complex dyes has been studied, involves lengthy, tedious and expensive manufacturing steps [12-13]. Moreover, inorganic dyes contain heavy metals which are rarely found and hence become costly. Also, their toxic nature becomes hazardous for environment. On the contrary, organic dyes which are abundantly available in nature and found to be ideal for eco-friendly DSSCs being non-toxic, having affordable cost, renewable, biodegradable and easily available, not producing any hazardous by products. Particularly, Eosin Y dye has been shown to be one of the best synthetic dyes having high molar extinction coefficient (60803M^{-1} cm^{-1}), upon excitation becomes more reducing and oxidizing and found to be applied in cell staining, as pH indicator and as a dye pigment in cosmetics also [14]. Eosin Y is having single carboxyl group which is suitable to anchor with TiO_2 molecules in photo anode [15].

IOPscience

PAPER

Dye sensitized solar cell based on environmental friendly eosin Y dye and Al doped titanium dioxide nano particles

Swati S Kulkarni[1,2], Gajanan A Bodkhe[1], Sumedh M Shirsat[3], S S Hussaini[4], N N Shejwal[5] and Mahendra D Shirsat[1]

Published 14 March 2018 • © 2018 IOP Publishing Ltd

Materials Research Express, Volume 5, Number 3

Citation Swati S Kulkarni *et al* 2018 *Mater. Res. Express* **5** 036205

DOI 10.1088/2053-1591/aab2d1

mdshirsat.phy@bamu.ac.in

[1] RUSA Centre for Advanced Sensor Technology, Department of Physics, Dr Babasaheb Ambedkar Marathwada University, Aurangabad—431004 (MS) India

[2] Department of Physics, Swa. Sawarkar Mahavidyalaya, Beed 431122 (MS) India

[3] Jawaharlal Nehru Engineering College, Aurangabad—431001 (MS) India

[4] Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed-431122 (MS) India

[5] All India Shri Shivaji Memorial Society's College of Engineering, Pune-411004 (MS) India

Swati S Kulkarni https://orcid.org/0000-0001-9150-1465

S S Hussaini https://orcid.org/0000-0002-5024-2986

1. Received 6 November 2017
2. Revised 10 February 2018
3. Accepted 28 February 2018
4. Published 14 March 2018

Method: Single-anonymous
Revisions: 1
Screened for originality? Yes

Dept. of Physics 2018-19
Collaborative Publication
13

Surface Review and Letters, 1850164 (6 pages)

DOI: 10.1142/S0218625X18501640

NATURAL HIBISCUS DYE AND SYNTHETIC ORGANIC EOSIN Y DYE SENSITIZED SOLAR CELLS USING TITANIUM DIOXIDE NANOPARTICLES PHOTO ANODE: COMPARATIVE STUDY

SWATI S. KULKARNI[†,‡,¶], S. S. HUSSAINI[§,‖], GAJANAN A. BODKHE[*,**] and MAHENDRA D. SHIRSAT[*,†,††]

[*]*RUSA Centre for Advanced Sensor Technology, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431004, India*

[†]*Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431004, India*

[‡]*Department of Physics, Swa. Sawarkar Mahavidyalaya, Beed 431122, India*

[§]*Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed 431122, Maharashtra, India*

[¶]*meerachothwe@gmail.com*
[‖]*shuakionline@yahoo.co.in*
[**]*gabodkhe@gmail.com*
[††]*mdshirsat.phy@bamu.ac.in*

Received 5 December 2017
Revised 2 January 2018
Accepted 24 January 2018
Published 15 March 2018

Titanium dioxide (TiO_2) nanoparticles have been synthesized by the cost effective Sol–Gel technique. Characteristics of TiO_2 nanoparticles were investigated by X-ray diffraction and Fourier Transform Infrared spectroscopy. The Eosin Y dye and dye extracted from Hibiscus tea have been successfully used in fabrication of the dye sensitized solar cell. The photovoltaic performance of the dye sensitized solar cell indicates that the short circuit photo current, open circuit voltage and efficiency of the DSSC using Eosin Y dye is 10 times more compared to the DSSC using the Hibiscus dye.

Keywords: Titanium dioxide nanoparticles, Eosin Y dye, hibiscus dye, dye sensitized solar cell (DSSC).

1. Introduction

Solar Cell is a clean, environmental friendly source of electricity converting light energy into electrical energy. As the Dye Sensitized Solar Cells (DSSCs) are using non-toxic materials and requiring little energy to manufacture, they are generally considered much

[††]Corresponding author.

Collaborative Publication

(14)

International Journal of Engineering Technology Science and Research
IJETSR
www.ijetsr.com
ISSN 2394 – 3386
Volume 5, Issue 4
April 2018

Microwave Assisted Synthesis of Aluminium Doped Titanium Dioxide Nanoparticles for Photovoltaic Application

Swati S. Kulkarni [1, 2], Gajanan A. Bodkhe[1], Sumedh M. Shirsat[3], S. S. Hussaini[4], Nana N. Shejwal[5] and Mahendra D. Shirsat*, [1]

[1]RUSA Centre for Advanced Sensor Technology, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (MS) INDIA

[2]Department of Physics, Swa. Sawarkar Mahavidyalaya, Beed (MS) INDIA

[3]Jawaharlal Nehru Engineering College, Aurangabad (MS) INDIA

[4]Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed (MS) INDIA

[5]AISSMS, College of Engineering, Pune (MS) INDIA

Abstract

Microwave oven assisted anatase phase aluminium doped Titanium dioxide(TiO_2) nanoparticles has been synthesized by low cost and simple Sol-gel method. The microwave oven has been used to dry the gel instead of pristine hot plate. The microwave assisted drying observed to save time and energy further reducing the production cost. Anatase phase formation of microwave oven assisted and pristine anatase phase TiO_2 nanoparticles has been proved by powder X-ray diffraction technique. Photovoltaic characteristics of dye sensitized solar cells (DSSCs) fabricated using the microwave oven assisted nanoparticles and pristine method nanoparticles were observed to be exhibiting comparable efficiencies.

Keywords: TiO_2nanoparticles, Microwave assisted heating, Sol-gel,dye sensitized solar cells

Introduction

Titanium dioxide nano particles have many excellent functions and features, such as stable properties, non-toxic, low cost, good at resisting chemical attack, nice photocatalyst, dis-infector and antiseptic [1-2]. It has been generallyused by researchers to prepare the photo anode of Dye Sensitized Solar Cell (DSSC). The conduction band position of TiO_2nanoparticles is having accurate position for the excited dye in DSSC, hence it has been usually in use as photoanode material [3-4].Moreover, doping TiO_2 facilitates the mobility causing the enhancement in photo current. Aluminium is one of the popular dopants used because of the closest size of Al^{+3} and Ti^{+4}ions[5]. Al doped TiO_2 nano particles are being synthesized by different scientific methods such as Precipitate method, hydrolysis method, hydrothermal method [4], spray pyrolysis deposition (SPD) method [6], chemical vapour deposition [7] and Sol-Gel method [8].Grain size, phase, particle morphology and porosityof the synthesized TiO_2nanoparticles can be tailored using Sol-Gel method, hence it is mostly preferred method for nano particle synthesis [9]. Moreover, this method is cheap and can be performed in robust environment.

In the present work Aluminium doped TiO_2 nanoparticles has been synthesized using simple, low cost Sol-Gel method assisted by microwave oven to further reduce the cost and production time. The special attention is paid on photovoltaic characteristics of DSSCs fabricated using Al doped TiO_2 nano particles synthesized by both the microwave assisted and pristine method. Though theuse of environmental friendly Eosin Y dye, lead to lower efficiency of the DSSCs[10]. However, comparative results are of the special interest.

Material and Method

Titanium Tetra ISO-Propoxide (TTIP), Aluminium Nitrate ($Al(NO_3)_3$), Polyethylene glycol were purchased from Otto chemicals, Eosin Y Dye and Cloroplutanic acid (H_2PtCl_6) were purchased from Ward Hill. All chemicals received were used as it is without further purification. Lithium iodide and iodine were used to form the electrolyte along with acetonitrile as solvent.

Modern Physics Letters B
1850424 (11 pages)

DOI: 10.1142/S0217984918504249

World Scientific
www.worldscientific.com

Tuning optical properties of cadmium thiourea acetate nonlinear optical crystal exploiting organic ligand of L-proline

R. B. Kulkarni*, M. Anis†, S. S. Hussaini‡ and M. D. Shirsat*,§

*RUSA Centre for Advanced Sensor Technology,
Dr. B.A.M. University, Aurangabad 431004 (MS), India
†Department of Physics, Maulana Azad College,
Aurangabad 431004 (MS), India
‡Crystal Growth Research Laboratory, Milliya Arts,
Science and Management Science College,
Beed 431122, Maharashtra, India
§mdshirsat.phy@bamu.ac.in

Received 1 October 2018
Accepted 22 October 2018
Published 21 December 2018

Modifying optical properties of crystal is very fundamental need for designing various photonic devices, hence in the current investigation, the L-proline (LP) has been firstly doped in cadmium thiourea acetate (CTA) crystal with the aim to optimize the UV–Visible, second harmonic generation (SHG) efficiency, luminescence and third-order nonlinear optical (TONLO) properties of CTA crystal. The pure and doped CTA crystals have been grown by slow solvent evaporation technique at 35°C. The structural parameters of grown crystals have been determined using the single crystal X-ray diffraction technique. The incorporation of LP in CTA crystal matrix has been confirmed by Fourier transforms infrared analysis. The UV–Visible studies have been employed within the wavelength range of 200–900 nm to explore the enhancing impact of LP on CTA crystal. The LP doped CTA crystals were subjected to Kurtz–Perry test and Z-scan analysis to identify the nonlinear nature of studied crystals. The SHG efficiency of LP-CTA crystal shows significant increase owing to enhanced charge transfer over the organic ligand of LP. The laser-induced TONLO properties of LP-doped CTA crystal have been determined at 632.8 nm. The nature of nonlinear refraction and absorption has been explored by close and open aperture Z-scan configuration. The magnitude of nonlinear refraction (n_2), absorption coefficient (β), cubic susceptibility (χ^3) and figure of merit has been determined using the transmittance data. The color-centered luminescence studies have been carried out which established the prominent redshift in peak maxima of emission wavelength of CTA crystal due to doping of LP. Comparative analysis of pure and doped crystal confirmed the dominance of LP doping.

Keywords: Crystal growth; optical studies; Z-scan analysis; TONLO parameters.

§Corresponding author.

Collaborative publication 2018-19

16

International Journal of Modern Physics B
Vol. 33 (2019) 1950010 (15 pages)

DOI: 10.1142/S0217979219500103

Illustrious influence of amino acid L-threonine (LT) on structural and optical insights of Zinc Thiourea Sulphate (ZTS) crystal

R. B. Kulkarni*, M. Anis†, S. S. Hussaini‡ and M. D. Shirsat*,§

*RUSA Centre for Advanced Sensor Technology, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad 431004, (MS) India

†Department of Physics and Electronics, Maulana Azad College of Arts, Science and Commerce, Aurangabad 431001, (MS) India

‡Crystal Growth Research Laboratory, Milliya Arts, Science and Management Science College, Beed 431122, Maharashtra, India

§mdshirsat.phy@bamu.ac.in

Received 7 September 2018
Revised 8 November 2018
Accepted 12 November 2018
Published 12 February 2019

Mentioned communication explores the modification in properties of Zinc Thiourea Sulphate (ZTS) crystal due to L-Threonine (LT) addition. Superior quality LT-doped ZTS crystal with 0.5 M% concentration of LT was grown by the slow evaporation solution growth technique. Powder X-ray diffraction technique was applied to study the cell parameters which confirmed orthorhombic crystal structure of both pure and LT-ZTS crystal with slight variation in cell parameters. Shimatzu make spectrophotometer confirmed the UV-Visible spectral analysis in the range of 200–900 nm which affirmed the 94% transmittance, enhanced bandgap value (4.72 eV), lower cut-off value (246 nm) and lower optical constants viz. extinction coefficient, polarizability, refractive index, and reflectance of LT-ZTS crystal. The higher second harmonic generation (SHG) efficiency of LT-doped ZTS was pointed by Kurtz Perry powder method (3.06 times of pure ZTS crystal and 3.62 times of KDP crystal) using Nd: YAG laser. The colour centered emission and electronic purity of parent and doped ZTS crystals were examined which resulted in the violet emission in visible region for both pure and LT-ZTS crystals. Z-scan technique is used to identify the Kerr lensing nonlinearity in pure and LT-doped ZTS crystal. Close aperture Z-scan curve demonstrated negative refraction nonlinearity (self-defocusing nature) for pure and positive refraction nonlinearity (self-focusing nature) for LT-ZTS crystal. Calculated value of refraction nonlinearity $n2$ is -2.2×10^{-11} cm^2/W for pure ZTS and $+4.99 \times 10^{-12}$ cm^2/W for LT-ZTS crystal. Open aperture Z-scan showed reverse saturable absorption effect (RSA) in pure ZTS and saturable absorption effect (SA) in LT-ZTS crystal. The β value is 2.85×10^{-5} cm/W for pure ZTS and 3.92×10^{-5} cm/W for LT-ZTS crystal. The $\chi 3$ of ZTS crystal is 6.133×10^{-5} cm/W and 1.655×10^{-4} cm^2/W for LT-ZTS crystal. The transition in TONLO parameters is observed due to doping of

§Corresponding author.

Collaborative publication 2018-19

4
17

FERROELECTRICS
https://doi.org/10.1080/00150193.2018.1528955

Taylor & Francis
Taylor & Francis Group

Check for updates

Crystal growth, spectral, optical and thermal studies of thiourea ammonium acetate doped potassium dihydrogen phosphate crystal for NLO applications

Y. B. Rasal[a], R. B. Kulkarni[b], M. D. Shirsat[b,c], and S. S. Hussaini[a]

[a]Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science and Management Science College, Beed, Maharashtra, India; [b]Intelligent Materials Research Laboratory, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India; [c]RUSA Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, Maharashtra, India

ABSTRACT

The non-linear optical single crystal of thiourea ammonium acetate doped potassium dihydrogen phosphate was grown by slow evaporation solution technique of size $19 \times 11 \times 4\,mm^3$. The crystallographic unit cell parameters of grown crystal were determined by single crystal X-ray diffraction study. The optical study revealed that the doped KDP crystal has high transmittance, low cut off wavelength and high optical band gap. The enhanced second harmonic generation efficiency of doped KDP crystal was determined by employing Kurtz-Perry powder technique. The third order non-linear absorption coefficient (β), non-linear refractive index (n_2) and susceptibility [$\chi^{(3)}$] were calculated using Z-scan technique. The laser damage threshold of grown crystal has been determined. The thermal properties of the grown crystal were carried out by thermogravimetric and differential thermal analysis.

ARTICLE HISTORY

KEYWORDS
Crystal growth; NLO material; Z-scan; laser damage threshold; thermal studies

1. Introduction

The nonlinear optical single crystal plays important role in the different applications of optical technologies like communication, switching, laser, optical storage etc. The nonlinear optical material possesses fascinating properties like a low optical loss, enhanced optical parameters and high laser damage threshold; dissipate thermal and mechanical stability with lower dielectrics [1–3]. In last decade new methods were introduced to grow novel materials in the different frequency spectrum with enhanced parameters for high technical optical applications [2, 4, 5]. The semi-organic materials are attracted by many researchers due to their high optical nonlinearity and chemical flexibility. The thiourea metal complexes show enhanced second order and third order nonlinear properties with higher optical, dielectric, thermal and mechanical properties [6,7]. The thiourea and urea forms inclusion compounds with variety of the salts and organic compounds having host-guest relationship which forms a stable compound. In this process of formation of compound thiourea and guest forms a layered structure. These

CONTACT Yogesh Rasal yogeshbrasal@gmail.comS. Hussaini shuakionline@yahoo.co.in

Collaborative publication 2018-19

International Journal of Advance and Innovative Research
Volume 6, Issue 1 (XIX): January - March, 2019 : Part - 2

ISSN 2394 - 7780

18

MAGNIFICENT TRANSMUTATION IN OPTICAL TRAITS DUE TO METHIONINE DOPING ON ZINC THIOUREA SULPHATE (ZTS) METAL COMPLEX CRYSTAL

Siddique Aneesa Fatima[1], Rupali B. Kulkarni[2], Mahendra D. Shirsat[3], S. S. Hussaini[4]
[1,4]Crystal Growth Laboratory, Milliya Arts, Science & Management Science College, Beed
[2,3]RUSA Centre for Advanced Sensor Technology, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

ABSTRACT
Present investigation explores the change in properties of Zinc Thiourea Sulphate (ZTS) crystal due to amino acid Methionine addition. Superior quality Methionine Zinc Thiourea Sulphate (M-ZTS) crystal with 0.1 M% concentration of Methionine was grown from aqueous solution by the slow evaporation method. Shimatzu make spectrophotometer was used to confirm the UV-visible spectral analysis in the range of 200–900 nm which affirmed the 88% transmittance, enhanced band gap value, lower cut off and lower optical constants viz. extinction coefficient, , refractive index, and reflectance of M-ZTS crystal. The obtained linear optical constants parameters showed the superiority of M-ZTS for application in distinct optoelectronics and laser stabilization systems.

Keywords: Crystal growth, Extinction coefficient, Refractive index

1. INTRODUCTION

Nonlinear optical materials like thiourea metal complexes offering improved optical, electrical and non-linear optical (NLO) coefficient has been sustained for past few decades due to their wide applications **[1-4].** Nonlinear optical (NLO) material Zinc tris (thiourea) sulphate (ZTS) is a best alternative for potassium dihydrogen phosphate crystals in frequency-doubling and laser fusion due to their properties high optical transparency, low refractive index, low reflectance low extinction coefficient ,widened band gap, Second harmonic generation efficiency 1.2 times of KDP, growth from solution by slow evaporation **[5-15].**

The impressive and significant influence of amino acid on the optical and electrical response of ZTS crystal **[16-24]** has attracted the attention of authors **[25-27].** As an output of literature study, authors want to acknowledge that authors are firstly elaborating the optical studies of Metheonine doped ZTS confirming its superiority for optical device applications.

2. EXPERIMENTAL PROCEDURE

Zinc Thiourea Sulphate (ZTS) metal complex salt was prepared by taking Zinc Sulphate and thiourea in 1:3 molar concentration. Prepared salt was further purified by repetitive recrystallization. 0.1M% Methionine was doped in ZTS supersaturated solution and the prepared solution was filtered in a sterilized beaker and kept for slow solvent evaporation in a constant temperature bath at 37°C. After UV-visible study, it was evident that 0.1M% Methionine doped ZTS express high prominent and good crystal planes and higher transmittance The 0.1 M% Methionine doped ZTS crystal is shown in **Fig. 1.**

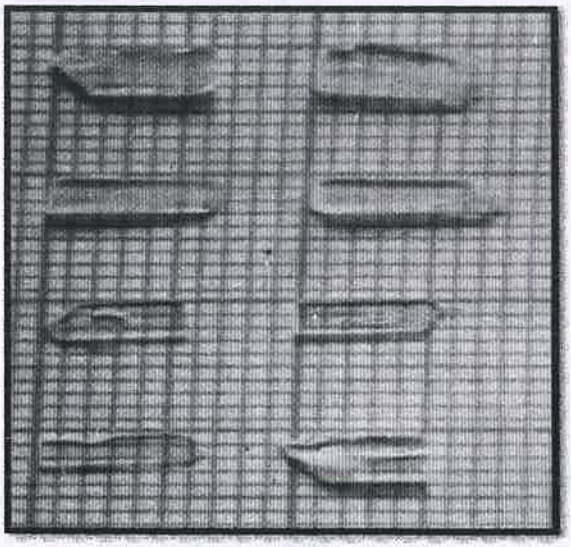


Fig-1: Metheonine doped ZTS crystals

Dept. of Physics 2018-19
Collaborative Publication
(19)

International Journal of Advance and Innovative Research
Volume 6, Issue 1 (XIX): January - March, 2019 : Part - 2
ISSN 2394 - 7780

FOCUSING SUPERIORITY OF S-R METHOD GROWN CRYSTAL OVER CONVENTIONALLY GROWN THIOUREA ZINC ACETATE (TZA) METAL COMPLEX CRYSTAL

Rupali B. Kulkarni[1,3], Siddique Aneesa Fatima[2], S. S. Hussaini[2] and Mahendra D. Shirsat[3]
[1]Department of Physics, Swa. Sawarkar Mahavidyalaya, Beed
[2]Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed
[3]RUSA Centre for Advanced Sensor Technology, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad

ABSTRACT
Current scenario demands good quality crystals for the nonlinear optical (NLO) device applications. Hence present communication concentrates on the growth of Thiourea zinc acetate metal complex crystal (TZA) by novel Sankaran-Ramasamy(S-R) method as well as a conventional slow evaporation solution growth method. Present investigation deals with the study of comparative photoconductivity, thermal and electrical property of conventionally grown and S-R method grown Thiourea zinc acetate metal complex crystal (TZA). The resulting performance indicated superiority of S-R method over the conventionally grown TZA crystal for application for laser assisted NLO applications.

Keywords: Crystal growth, Photoconductivity, S-R method

1. INTRODUCTION
In the emerging photonic and optoelectronic technologies nonlinear optics is playing a major role. Novel nonlinear optical (NLO) frequency conversion materials have a significant impact on laser technology, optical communication and optical data storage **[1].** NLO crystals exhibiting high conversion efficiency performance has ever-increasing exigency become a challenging task for the research fraternity due to their extended umbrella of applications like photonics, laser fusion systems, laser imaging and sensing devices, telecommunication systems, SHG devices and many other laser-based industrial applications **[2].**

Organic crystals possess large susceptibilities but their inadequate transparency, poor optical quality, and lack of robustness, low LDT, and inability to grow to large size, volatility, low thermal stability, poor mechanical strength etc. impedes their use. **[2],** whereas inorganic crystals shows thermal and mechanical excelllency. The increasing demand of materials with large NLO property along with resistance to physical and chemical attack has led to the synthesis of semi-organic crystals **[3-4].**

Above mentioned qualities are actively expressed by Thiourea metal complex (TMC) family crystals. TMC crystals owe the contribution of the organic features of thiourea and the inorganic features of the metal ligand viz. Zn, Cd **[5].** Thiourea based organo metallic optical crystals like bis thiourea cadmium chloride, bis thiourea zinc acetate, bis thiourea bismuth chloride are some of the recent semi organic complexes **[6-19].** The thiourea zinc acetate (TZA) crystal with its growth, nucleation parameters and various fundamental properties was studied by many researchers. As per the literature survey, the TZA TMC crystal has eye catching effect due to its attractive NLO, electro-optic, physico-chemical and thermo-mechanical properties **[5].**In present investigation TZA crystal is grown by both the methods-conventional slow evaporation solution growth method and S-R Method and corresponding dielectric, photoconductivity and thermal traits are compared. Obtained results confirmed that the crystal grown by novel S-R method is superior to conventionally grown crystal.

2. EXPERIMENTAL PROCEDURE
Bis thiourea zinc acetate (TZA) was synthesized by mixing aqueous solution of zinc acetate and thiourea in the ratio of 1:2.The product was purified by repeated re-crystallization before it is used for crystal growth. The SR method growth setup consists of a heating coil, thermometer, inner container, temperature controller, growth vessel and water bath. The photograph of the grown crystals is shown in **Fig. 1.**Conventional slow evaporation method is also used to grow the TZA crystal at 34 °C.

Dept. of Physics 2018-19
Collaborative Publication
(20)

RESEARCH JOURNEY International Multidisciplinary E-Research Journal | ISSN- 2348-7143
Impact Factor - (SJIF) – 6.261, (CIF) - 3.452, (GIF) – 0.676 Special Issue – 168(B) | March 2019 | UGC Approved No. 40705

Study Of Bis Thiourea Zinc Sulphate Doped Potassium Dihydrogen Phosphate Crystal

Y.B. Rasal[1], R.N. Shaikh[2], R. B. Kulkarni [3,4], M. D. Shirsat[4], S.S. Hussaini[2*]
[1]Smt. S. K. Gandhi Arts, Amolak Science, P. H. Gandhi Commerce College Kada, Tal. Ashti, Dist. Beed - 414202, Maharashtra, India,
[2]Assistant Professor, Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science and Management Science College, Beed-431122, Maharashtra, India,
[3]Professor, RUSA Centre for Advanced Sensor Technology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431005, Maharashtra, India
[4]Swa. Sawarkar College, Beed-431122, Maharashtra, India

Abstract

Bis thiourea zinc sulphate doped KDP crystals were grown by slow evaporation method at room temperature. The FT-IR spectral analysis is used to determine different functional groups. The UV-visible study confirms the wide optical transmittance for doped crystal imperative for optoelectronics applications. The transmittance data has been used to evaluate the optical band gap, refractive index and reflectance. The optical band gap of Bis thiourea zinc sulphate doped KDP crystal is found to be 4.06 eV.

Keywords: Slow evaporation method; Non linear optical; FT-IR; Refractive index; Reflectance.

1. Introduction

In the past decades demand of the high non linear optical (NLO) crystal of the organic, inorganic and semi-organic materials for their utilization in the field of photonics, optical data processing, optical switching devices and laser frequency conversion devices [1]. The organometallic crystals have attracted due to superior properties in view of optical, dielectric and mechanical [2]. The large dipole moments, ability to form metal ligands through hydrogen bonding are effectively works to improve optical properties and acts as matrix modifier. The transparency of the crystal is important factor to enhance the optical properties achieved by the co-ordination of thiourea with inorganic materials. The well known NLO thiourea based organometallic crystals reported in literature are zinc thiourea sulphate (ZTS), potassium thiourea bromide (PTB), bis-thiourea cadmium acetate (BTCA), copper thiourea chloride (CTC), bis-thiourea zinc acetate (BTZA), zinc thiourea chloride (ZTC), bis-thiourea cadmium chloride (BTCC) and may more [3-4]. The Potassium dihydrogen phosphate (KDP) is fundamental material in the field of nonlinear optical systems. The different doping made into KDP crystal to improve different properties and also various techniques are introduced to grow NLO crystals [5].

In literature, the attempts were made to grow thiourea metal complex mixed KDP crystals, P. Kumaresan et al have reported the effect of copper thiourea complex on [6], we have also grown Thiourea Nickel Nitrate (TNN) and Zinc Thiourea Chloride (ZTC) doped in KDP for its effective applications [7,8]. And, hence in the present investigation; we have grown Bis-Thiourea Zinc Sulphate doped KDP crystal and characterized for structural and optical properties.

2. Experimental procedure

Thiourea and zinc sulphate were dissolved in the deionized water in the molar ratio 2:1 and solution is well stirred. After six hours the prepared mixture was filtered by no.1 whatman filter paper and kept for evaporation. The purity of Bis thiourea zinc sulphate (BTZS) salt was achieved by successive recrystallization method. The high purity KDP salt was dissolved in double distilled deionized water until the supersaturation was achieved. The measured quantity of 0.1 mole % BTZS was slowly added to the supersaturated solution of KDP. The solution was allowed to agitate for 6 hrs on magnetic stirrer to acquire the homogeneous doping. This doped solution was filtered and kept for slow evaporation at room temperature. The well phased, good quality transparent seeds were harvested within 10-12 days. The photograph of 0.1 mole% BTZS doped KDP crystal is shown in Fig. 1.

Dept. of Physics 2018-19
Collaborative Publication (21)

RESEARCH JOURNEY International Multidisciplinary E-Research Journal | ISSN- 2348-7143
Impact Factor - (SJIF) – 6.261, (CIF) - 3.452, (GIF) – 0.676 Special Issue – 168(B) | March 2019 | UGC Approved No. 40705

Thiourea Metal Complex crystal for AR coating in solar thermal devices

Rupali B. Kulkarni[a,c], Yogesh B. Rasal[b,d], Siddique Aneesa Fatima[b], S. S. Hussaini[b] and Mahendra D. Shirsat*[,c]
[a]Department of Physics, Swa. Sawarkar Mahavidyalaya, Beed 431122 (MS) INDIA
[b]Crystal Growth Laboratory, Department of Physics, Milliya Arts, Science & Management Science College, Beed-431122, Maharashtra, India.
[c]RUSA Centre for Advanced Sensor Technology, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad – 431004 (MS) INDIA
[d]Department of Physics, S.K. Gandhi Arts, Amolak Science and P.H. Gandhi Commerce College, Kada

Abstract

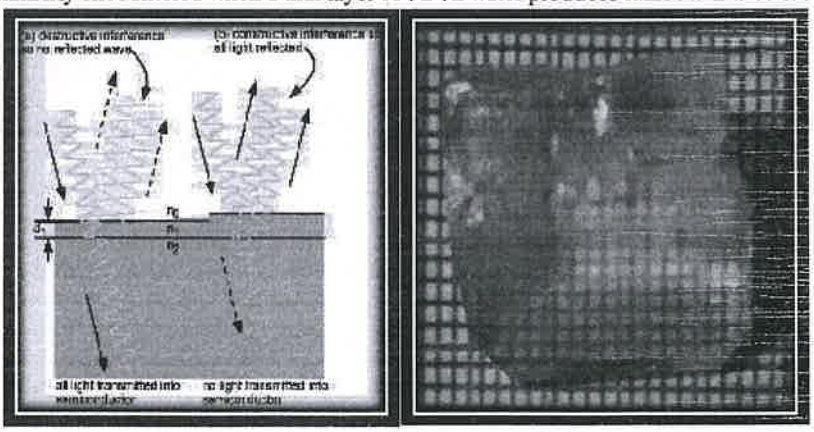
The thiourea metal complex (TMC) NLO crystals with index of refraction near 1 are used for antireflection coating on solar cells to enhance the efficiency by reducing the reflection. The said crystals are also useful for coatings on camera lenses and on some components used for optical experiments with lasers. Present communication concentrates on the synthesis, crystal growth and application of Thiourea zinc sulphate (ZTS) crystal doped with 1 M % Ammonium dihydrogen phosphate (ADP) crystal for antireflection coating. Superior quality non-linear optical crystals of ZTS + ADP were grown from aqueous solution by slow evaporation method in a constant temperature bath at 35°C. UV-visible spectral analysis ascertained in the range of 200–900 nm affirmed the 80% transmittance. Linear optical property refractive index determined by using transmittance data, required for antireflection coating.

Keywords: Crystal growth, refractive index, S-R method

1. Introduction

Thiourea metal complex (TMC) crystals have been very rapidly developed due to their appealing features such as large optical transparency, high nonlinear response, huge laser damage threshold, high thermal stability and improved mechanical properties. These qualities advocate TMC crystals suitable for applications in electro-optic modulation, optical data storage devices, high-tech NLO and telecommunication devices **[1-4]**. Zinc Thiourea sulphate (ZTS) is a nonlinear optical material (NLO) which has combined property of high optical nonlinearity and chemical flexibility of organics along with physical ruggedness of inorganic. ZTS is a material with non-centrosymmetric orthorhombic crystal system. It exhibits a low angular sensitivity, high laser damage threshold, wide optical transparency, and exceptionally wide acceptance angle for second harmonic generation (SHG), SHG efficiency 1.2 times of KDP **[5-12]**.

Approximately 4% incident light from uncoated glass substrate gets reflected at each interface, resulting in total transmission of only 92% of the incident light. The throughput Antireflection coating (AR) on each surface will increase the throughput of the system and minimizes the hazards caused by reflections traveling backwards through the system (ghost images). Anti-reflection coatings are more important for the systems containing many transmitting optical elements. Also, many low-light systems incorporate AR coated optics to allow for efficient use of light **[13, 14]**. Solar Cell anti-reflection coatings are same as those used on optical equipments such as camera lenses. Such coating has a thin layer of dielectric material, with a specially designed value of thickness. Hence the interference effects in the coating cause the reflection of wave from the top surface of anti-reflection coating which is to be out of phase with the wave reflected from the semiconductor surfaces. Obtained two out-of-phase reflected waves form destructive interference with one another, resulting in zero net reflected energy. In addition to anti-reflection coatings, interference effects are also commonly encountered when a thin layer of oil on water produces rainbow-like bands of color **[15, 16]**.



NAAC Re-Accredited
'B' Grade (CGPA 2.78)
ISO 9001 : 2015

Prof. Rajani Shikhare
(M.A. Ph.D.)
Principal

Marathwada Shikshan Prasarak Mandal's

ESTD. 1971

R. B. ATTAL ARTS, SCIENCE & COMMERCE COLLEGE

Georai - 431127, Dist. Beed, Maharashtra, INDIA

- Affiliated to : Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- Study Centre : Yashwantrao Chavan Maharashtra Open University, Nashik (M.S.) 2222A
- Centre No. : Senior - 50 / Junior - 264 (Index No. 57.04.001)

Ref. No.: RBAC /

Date : 15/06/2018

Received

AGREEMENT OF ACADEMIC COLLABORATION

Between

R.B. Attal College, Georai and *Swa. Sawarkar Mahavidyalaya, Beed.*

Whereas the above-named institutions recognize that academic collaboration would be of mutual benefit and would provide strengths in research and education and their mutual interest in engaging themselves in academic cooperation with *R.B. Attal College, Georai* and *Swa. Sawarkar Mahavidyalaya, Beed*, it is agreed that:

Aims and Objectives of the Collaboration:

1. To promote interest in research activities of the respective institutions
2. To undertake collaborative research activities leading to research analysis
3. To have exchange and dissemination of research ideas.
4. To carry out research jointly on particular research areas

The following terms and conditions are being laid with mutual understanding for the period of 5 years (2018-2023):

- There shall be an equal contribution by both faculties involved in the research activities
- Research facilities available at the respective institutions will be utilized for the research work.
- The research outcomes will be published with the consent of people involved in the research activities.

Date:

Principal
Swa. Sawarkar Mahavidyalaya, Beed

Principal
R. B. Attal College, Georai

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

PRINCIPAL
R.B.Attal College
Georai Dist.Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

NAAC Re-Accredited
'B' Grade (CGPA 2.78)
ISO 9001 : 2015

Prof. Rajani Shikhare
(M.A. Ph.D.)
Principal

Marathwada Shikshan Prasarak Mandal's
R. B. ATTAL ARTS, SCIENCE & COMMERCE COLLEGE
ESTD. 1971
Georai - 431127, Dist. Beed, Maharashtra, INDIA

- Affiliated to : Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- Study Centre : Yashwantrao Chavan Maharashtra Open University, Nashik (M.S.) 2222A
- Centre No. : Senior - 50 / Junior - 264 (Index No. 57.04.001)

Ref. No.: RBAC /

Date : / 20

Certificate of Collaborative Research Activity

As per the agreement between *R.B. Attal College, Georai* and *Swa. Sawarkar Mahavidyalaya, Beed,* there has been collaborative research activity between Faculty of the Department of Mathematics, R.B. Attal College, Georai and Faculty of the Department of Mathematics, Swa. Sawarkar Mahavidyalaya, Beed. The details of the collaborative research activities are as follows:

Faculty engaged in Collaborative Research:

Sr. No.	Name	Department	College
1	Dr. Vijay Sangale	Mathematics	R.B. Attal College, Georai
2	Dr. Vinod Kulkarni	Mathematics	Swa. Sawarkar Mahavidyalaya, Beed

Details of publication under Collaborative Research Activity:

Sr. No.	Title of the Research Paper	Journal/ Book	Month of Publication
1	Fuzzification Of Linear Spaces	International Journal Of Advance And Innovative Research	January-March, 2019
2	Solution Of Forced And Free Convection Flow Of Dissipative Fluid Past An Infinite Vertical Plate	International Journal Of Advance And Innovative Research	April-June 2019
3	Solution Of Dissipative Fluid Flow Of An Impulsively Started Infinite Vertical Plate.	Our Heritage	February 2020
4	Rotating Fluid of Magneto Hydrodynamics Flow Past An Impulsively Started infinite Vertical Plate	Research Journey International e- Journal	December 2020

Hence certified that there has been successful collaboration in terms of research and resulted in the publication of a research paper during the academic year 2018-2023.

Principal
Swa. Sawarkar Mahavidyalaya, Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Principal
R. B. Attal College, Georai

PRINCIPAL
R.B.Attal College
Georai Dist.Beed

केल्याने होत आहे रे । आधि केलेचि पाहिजे ।।
Bhartiya Shikshan Prasarak Sanstha, Ambajogai
Swa. Sawarkar Mahavidyalaya, Beed
Arts, Science & Commerce
NAAC Accreditation Grade 'B'
Sawarkar Nagar, Near Netradham Hospital, Jalna Road, Beed 431 122, Maharashtra (INDIA)
☎ 02442-226218, e-Mail : veersawarkarbeed@gmail.com, Website - www.sawarkar.co.in

Certificate of Collaborative Research Activity

As per the agreement between *Swa. Sawarkar Mahavidyalaya, Beed* and *R.B. Attal College, Georai,* there has been collaborative research activity between Faculty of the Department of Mathematics,Swa. Sawarkar Mahavidyalaya, Beed and Faculty of the Department of Mathematics,R.B. Attal College, Georai. The details of the collaborative research activities are as follows:

Faculty engaged in Collaborative Research:

Sr. No.	Name	Department	College
1	Dr. Vinod Kulkarni	Mathematics	Swa. Sawarkar Mahavidyalaya, Beed
2	Dr. Vijay Sangale	Mathematics	R.B. Attal College, Georai

Details of publication underCollaborative Research Activity:

Sr. No.	Title of the Research Paper	Journal/ Book	Month of Publication	
1	Fuzzification Of Linear Spaces	International Journal Of Advance And Innovative Research	January-March, 2019	2018-19
2	Solution Of Forced And Free Convection Flow Of Dissipative Fluid Past anInfinite Vertical Plate	International Journal Of Advance And Innovative Research	April-June 2019	2018-19
3	Solution Of Dissipative Fluid Flow Of An Impulsively StartedInfinite Vertical Plate.	Our Heritage	February 2020	2019-20
4	Rotating Fluid of Magneto Hydrodynamics Flow Past An Impulsively Started infinite Vertical Plate	Research Journey International e- Journal	December 2020	2020-21

Hence certified that there has been successful collaboration in terms of research and resulted in the publication of research paper during the academic year 2018-2023.

Principal
R.B. Attal College, Georai

Principal
R.B. Attal College
Georai.Dist.Beed.

Principal
Swa. Sawarkar Mahavidyalaya, Beed

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Dr. VBK 2018-19

International Journal of Advance and Innovative Research
Volume 6, Issue 1 (XVI): January - March, 2019
ISSN 2394 - 7780

FUZZIFICATION OF LINEAR SPACES

Vinod Kulkarni[1] and Vijay Sangle[2]
[1]Department of Mathematics, Swa. Sawarkar Mahavidyalaya, Beed
[2]Department of Mathematics, R. B. Attal College, Georai, Dist. Beed

ABSTRACT
Analyze the concept of fuzzy linear spaces (FLS) and we have proposed the redefined notion of fuzzy linear spaces and have established that the proposed definition is more general and appealing than that of Nanda and Biswas. The notion of product (*) of two fuzzy linear spaces has been proposed and it has been observed that the product is again a fuzzy linear space under the new definition. In other words, we can say that these structures are preserved under the product (*). We observe that it is more general than its classical counter part.

1. INTRODUCTION

The concept of fuzzy linear spaces was introduced by ***Sudarsan Nanda*** in 1986 and was again redefined by **Biswas** in 1989. It is expected that several results from linear algebra and functional analysis can be extended to the concept of fuzzy setting. ***Nanda*** propounded the notion of fuzzy linear spaces in a linear space as follows:

2. FUZZY LINEAR SPACE

Let F be a fuzzy field in a field (X, + , .) with membership function F(λ). Let Y be a linear space over F and V be a fuzzy subset of Y with membership function V(x). Then, V is called as a fuzzy linear space in Y if the following postulates are satisfied:

(i) $V(x + y) \geq \min\{V(x), V(y)\}, \forall\ x, y \in Y$

(ii) $V(\lambda x) \geq \min\{F(\lambda), V(x)\}, \forall\ \lambda \in F$ and $\forall\ x \in Y$

(iii) $V(0) = 1$

In case F is an ordinary field then, $F(\lambda) = 1$ and hence

$V(\lambda x) \geq \min\{1, V(x)\}, \forall \lambda \in F$ and $x \in Y$

$= V(x)$

Hence, for F to be an ordinary field, the (ii) postulate may be considered as

$V(\lambda x) \geq V(x), \forall\ \lambda \in F$ and $x \in Y$

Now we will analyze the definition of fuzzy linear space introduced by ***Nanda***.

Let us consider the case when F and V both are classical set. Then , we have $F(\lambda) = 1$, $V(x) = 1$ and $V(y) = 1$ for all $x, y \in F$

and $\lambda \in F$.

Hence, from condition (i), we have

$V(x + y) = 1 \Rightarrow x + y \in V$

Thus, we get that $x, y \in V \Rightarrow x + y \in V$.

Further, from condition (ii), we get

$V(\lambda x) \geq \min\{1,1\} = 1$

i.e. $V(\lambda x) = 1 \Rightarrow \lambda x \in V$. That is, $x \in V, \lambda \in F \Rightarrow \lambda x \in V$.

It follows that V is closed under addition and scalar multiplication.

Thus, on the basis of above discussion we arrive at the conclusion that the definition of fuzzy linear space has been considered in such a way that when F and V both are considered as an ordinary subset, V turns out to be a subspace of Y.

Alternatively, For all $x, y \in Y$. and $\lambda, \mu \in F$, we have

Dr. V.B. Kulkarni 2018-19
Maths (Dept. of Maths)

(8)

International Journal of Advance and Innovative Research
Volume 6, Issue 2 (XXXIX): April - June, 2019
ISSN 2394 - 7780

SOLUTION OF FORCED AND FREE CONVECTION FLOW OF DISSIPATIVE FLUID PAST AN INFINITE VERTICAL PLATE

V. Kulkarni and V. P. Sangale[1]
Department of Mathematics, SWA. Sawarkar Mahavidyalaya Beed
[1]Department of Mathematics, R. B. Attal College Georai, Beed
vijaysangale67@gmail.com

ABSTRACT
An approximate solution of forced and free convection flow of dissipative fluid past an infinite vertical Plate, is derived by explicit finite difference technique by taking into account viscous dissipative heat. It is observed that the velocity decreases near the plate and the increases far away from the plate. Greater Viscous dissipative heat causes a rise in the velocity but the velocity decreases with increasing the Prandtl number for large t. An increase in G or t also increases in the skin friction but the rate of heat transfer decreases.

Keywords: *Viscous dissipative heat, Prandtl number , Grashof number , Skin friction.*

INTRODUCTION
Siegel (1958)] schetz and Eichhorn (1962) Menold and Yang (1962) Chung and Anderson (1961),Goldstein and Briggs (1964) and Sugawara and Michiyoshi (1951) Soundalgekar ,Lahurikar and Pohnerkar (1997) studied the unsteady free convection flow under various conditions past an infinite vertical plate. Goldstein and Eckert (1960), confirmed experimentally some of these theoretical predictions. In all these studies, the infinite plate was assumed to be stationary and the fluid was suppose to move due to temperature difference only. If the fluid is stationary and the infinite plate surrounded by stationary fluid is given an impulsive motion along with its temperature raised to such that, where is the temperature of the surrounding fluid how the shape of fluid flowing takes its shape? This was studied by Soundalgekar (1977) in case of an isothermal plate. The effect of free convection currents on the flow and the skin friction were studied in this paper.

Combined free and forced convection flow past a semi-infinite vertical plate was first studied by Acrivos (1958),Kliegel (1959)who solved the equations by using the Karman- Pohlhausen method.. However another physical situation which is often experienced in the industrial application is the unsteady free and forced convective flow past an infinite vertical isothermal plate of an incompressible fluid. This situation studied by Jahagirdar and Lahurikar (1989) without considering the dissipative heat.

In some of these papers the effect of viscous dissipative heat was assumed to be neglected. Gebhart (1962) has studied and get the result that when the temperature difference is small or in high Prandtl number fluids or when the gravitational field is of high intensity, viscous dissipative heat should be taken into account in steady free convection flow past a semi-infinite vertical plate. Following this assumption Soundalgekar, Bhat and Mohiuddin (1979) studied the effect of free convection currents on the flow past impulsively started infinite plate, in this case the problem is governed by a coupled non-linear system of partial differential equations This problem was solved by finite difference technique.

It has been proposed to study forced and free convection flow of dissipative fluid past an infinite vertical Plate. As the problem is governed by coupled nonlinear system of partial difference equations exact solutions are not possible, so we employ explicit finite difference method.

MATHEMATICAL ANALYSIS :
Here we consider the unsteady free and forced convection flow of a viscous incompressible fluid past an infinite vertical isothermal plate in the upward direction in presence of dissipative heat. The -axis is taken along the plate in the vertically upward direction and the - axis taken normal to the plate. Initially at both the plate and the fluid are stationary and at the same temperature At tim.e the plate temperature is raised to and the fluid starts moving upward with velocity U_0. Then the difference between the plate temperature and the ambient temperature causes the free convection currents to flow near the plate modifying the fluid flow. The physical variables are functions of and only. Then under usual Bonssinesq's approximation,by the following system of coupled partial differential equation in non dimensional form

ISSN 2394 - 7780

$$\tau = \left(\frac{\tau'}{\rho U_0{}^2}\right) = \left(\frac{-du}{dy}\right)_{y=0}$$

$$q = \left(\frac{vq'}{kU_0\Delta T}\right) = -\left(\frac{d\theta}{dy}\right)_{y=0} \qquad (8)$$

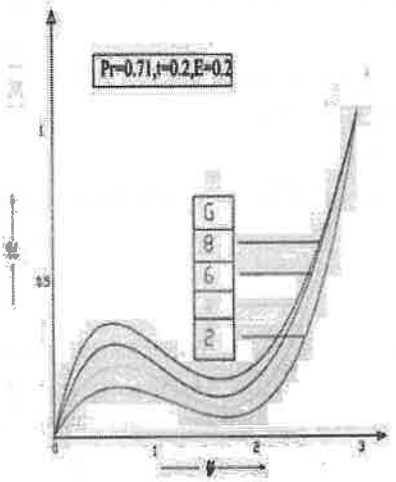


Fig.1. Velocity profile

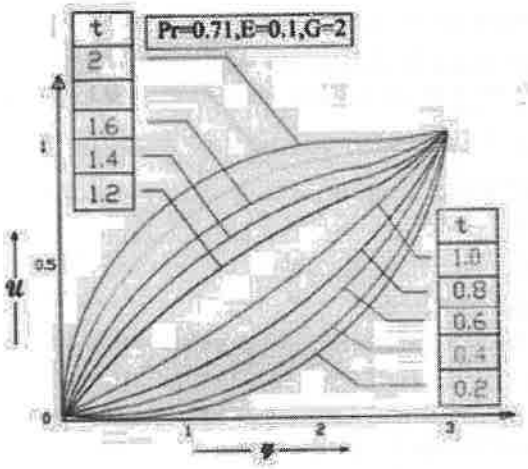


Fig. 2. Velocity profile

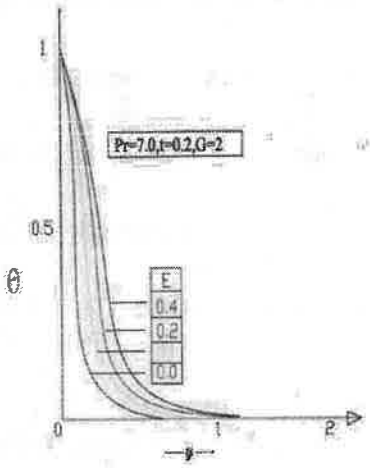


Fig-3: Temperature profile

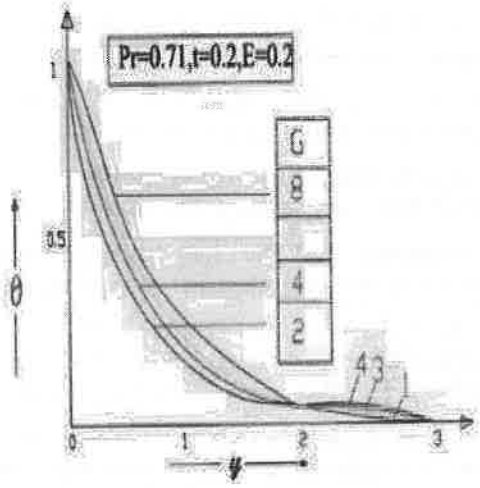


Fig-4: Temperature profile

t	E	G	Pr= 0.71		Pr= 7	
			-τ	-q	-τ	-q
0.2	0.0	2	0.548661	1.057851	0.275831	3.343185
	0.1	2	0.548696	1.056722	0.275836	3.342900
	0.4		0.548801	1.053334	0.275851	3.342067
0.2	0.2	4	1.097791	1.049022	0.551706	3.340955
		6	1.647578	1.038052	0.827688	3.338174
0.4	0.1	2	0.782358	0.744987	0.397351	2.355254
0.6			0.986162	0.601883	0.513918	1.919075

TABLE (I)

Our Heritage(UGC Care Listed)

ISSN: 0474-9030 Vol-68, Special Issue-12

National Conference on Recent Trends in Physics, Chemistry and Mathematics (RTPCM-2020)
Held on 4th February 2020 Organised by: Department of Physics, Chemistry and Mathematics, Sundernao Solanke Mahavidyalaya, Majalgaon, MS

Solution Of Dissipative Fluid Flow Of An Impulsively Started Infinite Vertical Plate.

***Vinod B. Kulkarni **Vijay Sangle**
* Swa. Sawarkar Mahavidyalaya,
Beed.Dist-Beed
**R.B. Attal College Gevrai. Dist- Beed.
E-mail : vbhalerao2010@gmail.com.

Abstract

A finite difference solution of dissipative fluid flow past an impulsively started infinite vertical plate in a rotating fluid. Axial and transverse velocity profiles, temperature profiles are shown for different values of Ekman number E_k, the Prandtl number Pr and the Eckert number Ec. The numerical values of Axial and transverse skin friction and the rate of heat transfer are entered in a table. It is observed that rotating speed increase axial velocity decrease and the transverse velocity is also decrease for all Prandlt number and there is rise in the temperature for low density fluid (Pr < 0.71) but when Pr is large temperature increase due to more rotation of the system near the plate and decreases far away from the plate.

Introduction

An exact solution of Navier-stokes equation which was concerned for the flow of viscous incompressible fluid past an infinite horizontal impulsively started plate, in a stationary mass of fluid was first presented by Stokes in 1851. Hall (1969) was presented by A finite difference solution to the flow past an impulsively started semi- infinite horizontal plate However instead of horizontal plate ,if an impulsive motion is given to an infinite vertical plate which is surrounded by an infinite mass of viscous incompressible fluid, how the flow is affected by free convection currents ?.This was first studied by Soundalgekar (1977) who presented an exact solution to coupled partial differential equations by the Laplace-transfer technique. The effect of heating or cocling of the plate by the free convection currents was studied by neglecting viscous dissipative heat .If the impulsive motion given to the plate is such that the velocity is rather high or the surrounding liquid is of high Prandtl number or the situation considered at high gravitational field, then the viscous dissipative heat cannot be neglected has been shown by Gabhart (1962). Soundalgekar et.al.(1979) considered this problem by taking the effect of viscous dissipative heat on the motion past an impulsively started infinite vertical isothermal plate. Now during last few years the flow around the

'RESEARCH JOURNEY' *International E- Research Journal*
Impact Factor - (SJIF) – 6.625 (2019),
Special Issue -256 (C) : Multidisciplinary Research
Peer Reviewed Journal
E-ISSN : 2348-7143
Dec. 2020

Rotating Fluid of Magneto Hydrodynamics Flow Past An Impulsively Started Infinite Vertical Plate

Vinod Kulkarni[1], Vijay Sangale[2]

1. Department of Mathematics, Swa. Sawarkar Mahavidyalaya Beed.-431122
2. Department of Mathematics, R. B. Attal College Gevrai. Dist. Beed.-431127 (India)
E.mail: vbhalerao2010@gmail.com

Abstract :

This paper present an exact solution to the a rotating fluid of magneto hydrodynamics flow past an impulsively stated infinite vertical plate. Dimensionless governing equation are solved by Laplace-transform technique. Expressions of axial and transfer component of velocity, skin friction are derived. It is demonstrated that both axial and transverse components of velocity decrease due to increasing t. The axial component of skin-friction increases with increasing M but the transverse component of skin friction decrease with increasing M.

Keywords : MHD flow, Laplace transform, Rotating fluid.

Nomenclature:

Cp: Specific heat at constant pressure. EK: Ekman number

Gr : Grashof number

g: Acceleration due to gravity K: Thermal conductivity

Pr: Prandtl number

T': Temperature of the fluid near the plate T'W: Temperature of the plate

T'∞: Temperature of the fluid far away from the plate

t': Time

Uo: Reference velocity (Eq 2.5)

G': Angular speed

(uu, vu):Velocity components along x, and y, axis respectively

z': Coordinate normal to x',y', plane

Greek Symbols :

ν : Kinematic viscosity

β : Coefficient of volume expansion þ* : Coefficient of species expansion ρ : Density

μ: Viscosity

Introduction:

If the plate is given motion in a rotation fluid, how the motion takes place? This has been discussed by Batchelor (1967). Many papers were published on this topic by different authors. The fluid assumed was stationary. Flow of a viscous incompressible fluid past an impulsively started infinite vertical plate, on taking into account the presence of free convection currents was studied by Soundalgekar (1977) and presented an exact solution to coupled linear partial differential equation by the Laplace transform technique. The effects of transversely applied

$$\frac{\partial v'}{\partial t'} + 2\Omega' u' = v\frac{\partial^2 v'}{\partial z'^2} - \frac{\sigma B_0^{\,2}}{\rho}v' \qquad (3)$$

$$\rho C_P \frac{\partial T'}{\partial t'} = k\frac{\partial^2 T'}{\partial z'^2} \qquad (4)$$

All the physical variables are defined in the notation. The initial and boundary conditions are

$$u' = 0, \quad v' = 0, \quad T' = T'_\infty \quad for\ all\ z', t' \le 0$$
$$u' = U_0, \quad v' = 0, \quad T' = T'_w \quad at\ z = 0, t' > 0$$
$$u' = 0, \quad v' = 0, \quad T' = T'_\infty \quad as\ z' \to \infty, t' > 0 \qquad (5)$$

In equations (1) -(5) and we have

$$\frac{\partial q}{\partial t} + 2iE_K q = \theta + \frac{\partial^2 q}{\partial z^2} - Mq \qquad (6)$$

$$Pr\frac{\partial \theta}{\partial t} = \frac{\partial^2 q}{\partial z^2} \qquad (7)$$

where $q = u + iv$

with the following initial and boundary conditions :

$$q = 0, \quad \theta = 0, \quad for\ all\ \ z, t \le 0$$
$$q = 1, \quad \theta = 1 \quad at\ z = 0, t > 0$$
$$q = 0, \quad \theta = 0 \quad as\ z \to \infty, t > 0 \qquad (8)$$

The solutions to these coupled linear systems can be derived by the usual Laplace- transform technique and it is as follows:

$$q = \frac{1}{2}\left(1 - \frac{1}{b}\right)\left\{e^{-2\eta\sqrt{bt}}erfc\left(\eta - \sqrt{bt}\right) + e^{2\eta\sqrt{bt}}erfc\left(\eta + \sqrt{bt}\right)\right\} + \frac{e^{at}}{2b}\left\{e^{-2\eta\sqrt{(a+b)t}}erfc(\eta - \sqrt{(a+b)t}) + e^{2\eta\sqrt{(a+b)t}}.erfc\left(\eta\sqrt{(a+b)t}\right)\right\} + \frac{1}{b}erfc\left(\eta\sqrt{Pr}\right) - \frac{e^{at}}{2b}\left\{2^{-2\eta\sqrt{aPrt}}.erfc\left(\eta\sqrt{Pr} - \sqrt{at}\right) + e^{2\eta\sqrt{aPrt}}.erfc\left(\eta\sqrt{Pr} + \sqrt{at}\right)\right\}$$

Where $a = \frac{b}{Pr-1}$, $\quad b = 2iE_K + M \qquad (9)$

And $\eta = \frac{z}{2\sqrt{t}}$

we have carried out numerical computation for u. v and 8. In order to gain physical insight into this problem However, for Pr=0.71, the argument of erfc function becomes complex and hence we have to separate these into real and imaginary parts.

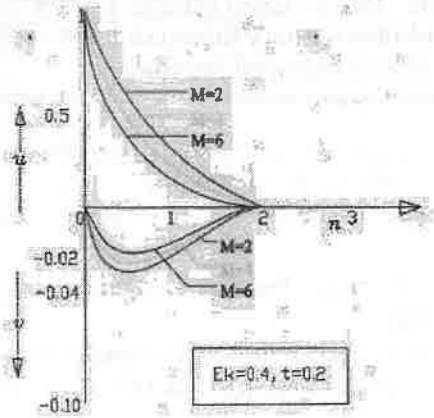


FIG.2: AXIAL AND TRANSVERSE VELOCITY PROFILES,Pr=0.71

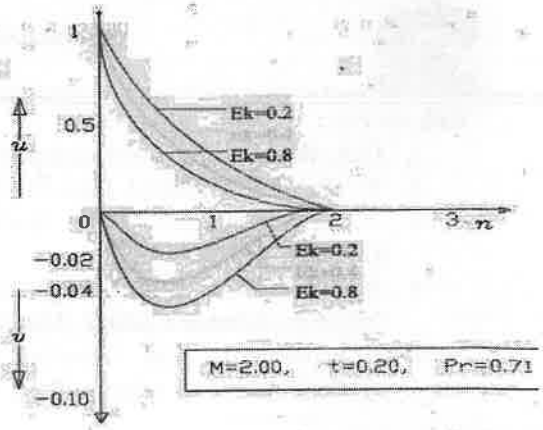


FIG.3: AXIAL AND TRANSVERSE VELOCITY PROFILES

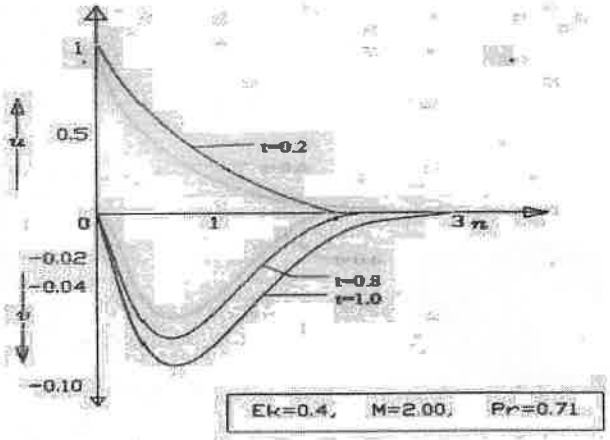


FIG.4: AXIAL AND TRANSVERSE VELOCITY PROFILES,EFFECT OF TIME

Conclusions.

(i) By increasing the Ekman number , the axial as well as transverse components of velocity decrease.

(ii) By increasing time t, the axial as well as transverse components of velocity decrease.

(iii) Due to increasing M, the axial component of velocity decreases But the transverse component of velocity increases.

(iv) Due to increase in time t. the axial as well as transverse components of skin friction increases

(iv)The Axial component of skin friction increases with increasing M or Ek

(v) The transverse component of skin friction decrease with increasing M and increase owing to an increase in the Ek.

SWA. SAWARKAR MAHAVIDYALAYA , BEED.

COLLABIRATION WITH

MARATHWADA MATHENATICAL SOCIATY,

AURANGABAD

17th REGIONAL LEVEL SEMINAR COMPTITION

ON

MATHEMATICS AND APPLICATIONS

(05 FEB, 2019)

PROGRAM DETAILS: AT A GLANCE

TIME	ACTIVITY
09.00am to 10.00am	Registration.
10.00am to 10.30am	Inauguration function.
10.30am to 01.30pm	Seminar presentations.
01.30pm to 02.00pm	Refreshment.
02.00pm to 04.30pm	Seminar presentations.
04.30pm to 05.00pm	Valedictory function. (Prize distribution)

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Date: 15 /01 /2019.

To,

The Principal,

Swa.Sawarkar Mahavidyalaya,

Beed .Dist –Beed.

Sub : **Application for the permission to organize regional level seminar competition for the UG/PG student.**

R/Sir,

As per the above subject, Department of mathematics want to organize a regional level seminar computation for UG/PG student with the collaboration of Marathwada Mathematical Society Aurangabad on the topic " Mathematics and Applications".

If you permit, then department is ready to organize such seminar computation on 5th Feb 2019. Approximate expenditure is 6000 /- Rs.

So , permit & sanction the required amount to organize such seminar computation.

Thanking you !

Your's faithfully,

Dr. Vinod B. Kulkarni.

Asst. Prof. & Head ,Dead Dept. of Maths

Principal
Swa.Sawarkar Mahavidyalaya
Beed.



B.S.P. Sanstha, Ambajogai

Swa. Sawarkar Arts, Science and Commerce College, Beed

and

Marathwada Mathematical Society, Aurangabad

Jointly Organized

Seminar Competition on Mathematics and Applications

Certificate

This is to certify that

Mr. /Miss.----------

Of ----------

has participated and won First / Second / Third / Consolation prize in Seminar Competition on Mathematics and Applications at Swa, Sawarkar Arts, Science and Commerce College, Beed On 5th Feb.2019.

Dr. Vinod Kulkarni
Convener

Dr. Bhausaheb Sontakke
Co-ordinator, SSMMS

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

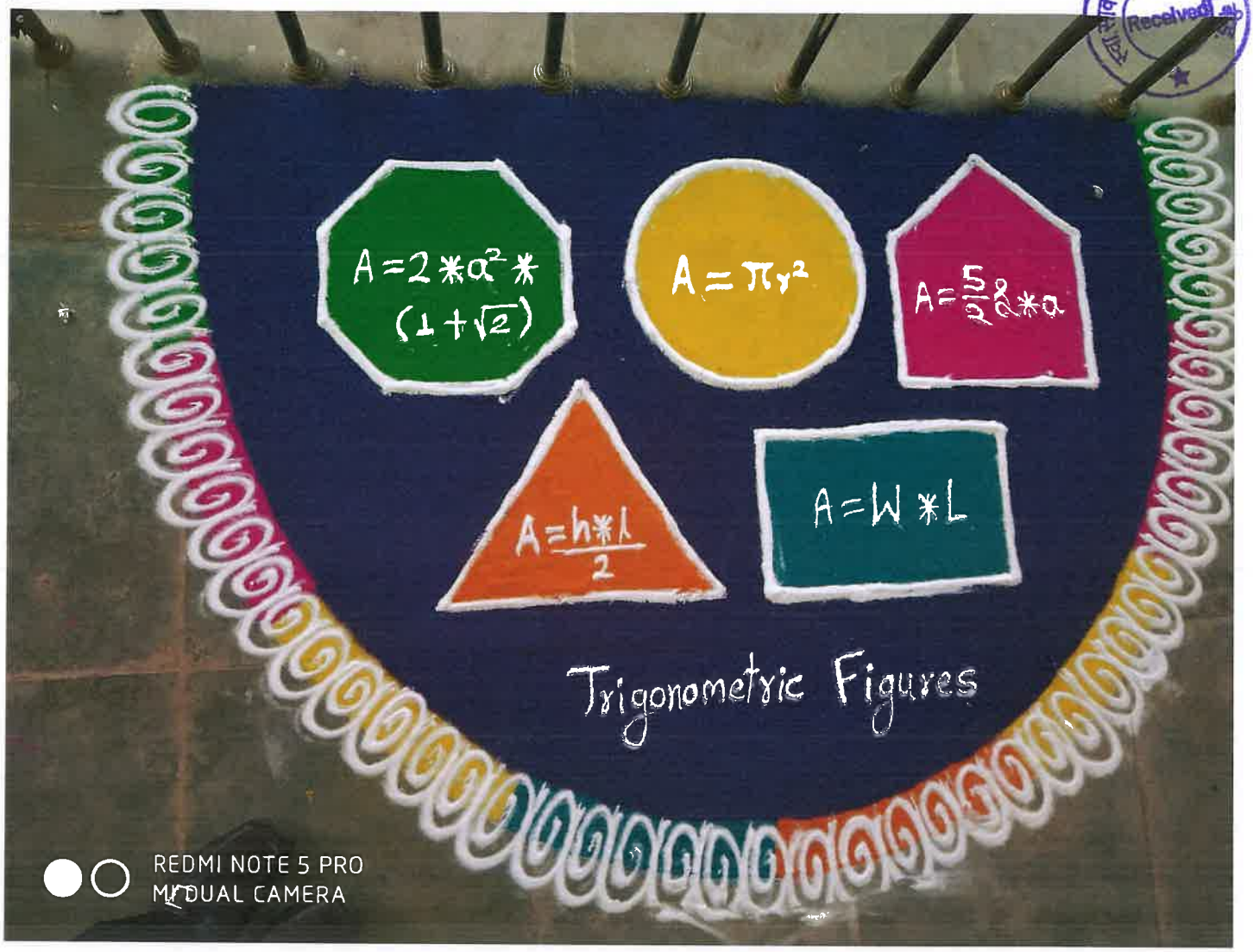
Dr. Sanjay Shirodkar
Principal

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Principal
Swa.Savarkar Mahavidyalaya
Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Principal
Swa.Sawarkar Mahavidyalaya
Beed.



Principal
Swa.Sawarkar Mahavidyalaya
Beed.

Bhartiya Shikshan Prasarak Sanstha, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Department of Microbiology

In collaboration with

Microbiologists Society India

Organized

Microbiology Rangoli Competition

(Wednesday, 14th August 2019)

Report

MBSI Noted your activity.

President,
Microbiologists Society,
India

Principal
Swa.Sawarkar Mahavidyalaya
Beed

On Wednesday, 14th August 2019, the Department of Microbiology, Sawarkar College, Beed, in collaboration with Microbiologists Society India organized an 'Immunity' themed Rangoli (a traditional Indian art form using colorful patterns) competition. The participants in this competition creatively depicted various concepts related to Immunity through Rangoli.

The aim was to study various components of the curriculum with a holistic approach. The participants were encouraged to present their acquired knowledge in an engaging and innovative manner. The program, organized by the Department of Microbiology, had the objective of showcasing the manifestation of knowledge with enthusiasm among the competitors. A total of 11 students participated in the competition. During the event, students, teachers, and staff members had the opportunity to gain insights from the students on the subject. The event was graced by esteemed dignitaries, including Hon. Dr. Surendraji Alurkar, Chairman of the Bhartiy Shikshan Prasarak Sanstha, Ambajogai and Hon. Shree. Chadrakant Mule, President of the College Development Committee, who offered their appreciation to the students.

Principal Dr. Sanjay Shirodkar, Vice-Principal Dr. Laxmikant Bahegavnkar, and Dr. Rajesh Dhere encouraged the students during the event. The program was coordinated by the faculty members of the Microbiology Department, Dr. Krishna Bartakke, and Mr. Anant Deshpande, along with laboratory assistant Smt. Manisha Dharurkar. The first, second, and third prizes were awarded to Miss Vaishnavi Patki (3rd-year B.Sc.), Miss Aboli Beedkar (2nd-year B.Sc.), and Miss Snehal Kamble (3rd-year B.Sc.) respectively. The winning Rangoli designs have been displayed at the entrance of the New Arts, Science and Commerce College in Ahmednagar, organized jointly by the Microbiologists' Society of India, Maharashtra."

Immunology Rangoli Competition
(Wednesday, 14th August 2019)

2019-20
Dept. of Microbiology
13

Bhartiya Shikshan Prasarak Sanstha, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Department of Microbiology

In collaboration with

Microbiologists Society India

Swa. Sawarkar Mahavidyalaya Beed * B.S.P.S. Ambajogai *

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Immunology Rangoli Competition

(Wednesday,14th August 2019)

Bhartiya Shikshan Prasarak Sanstha, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Department of Microbiology

In collaboration with

Microbiologists Society India

Organized

Microbiology Rangoli Competition

(Wednesday,14th August 2019)

Report

On Wednesday, 14th August 2019, the Department of Microbiology, Sawarkar College, Beed, in collaboration with Microbiologists Society India organized an 'Immunity' themed Rangoli (a traditional Indian art form using colorful patterns) competition. The participants in this competition creatively depicted various concepts related to Immunity through Rangoli.

The aim was to study various components of the curriculum with a holistic approach. The participants were encouraged to present their acquired knowledge in an engaging and innovative manner. The program, organized by the Department of Microbiology, had the objective of showcasing the manifestation of knowledge with enthusiasm among the competitors. A total of 11 students participated in the competition. During the event, students, teachers, and staff members had the opportunity to gain insights from the students on the subject. The event was graced by esteemed dignitaries, including Hon. Dr. Surendraji Alurkar, Chairman of the Bhartiy Shikshan Prasarak Sanstha, Ambajogai and Hon. Shree. Chadrakant Mule, President of the College Development Committee, who offered their appreciation to the students.

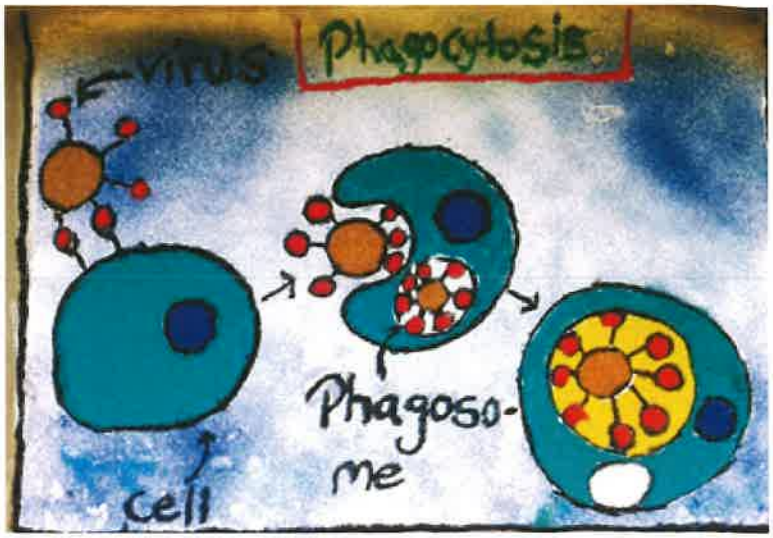
Principal Dr. Sanjay Shirodkar, Vice-Principal Dr. Laxmikant Bahegavnkar, and Dr. Rajesh Dhere encouraged the students during the event. The program was coordinated by the faculty members of the Microbiology Department, Dr. Krishna Bartakke, and Mr. Anant Deshpande, along with laboratory assistant Smt. Manisha Dharurkar. The first, second, and third prizes were awarded to Miss Vaishnavi Patki (3rd-year B.Sc.), Miss Aboli Beedkar (2nd-year B.Sc.), and Miss Snehal Kamble (3rd-year B.Sc.) respectively. The winning Rangoli designs have been displayed at the entrance of the New Arts, Science, and Commerce College in Ahmednagar, organized jointly by the Microbiologists' Society of India, Maharashtra."

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Immunology Rangoli Competition
(Wednesday,14th August 2019)

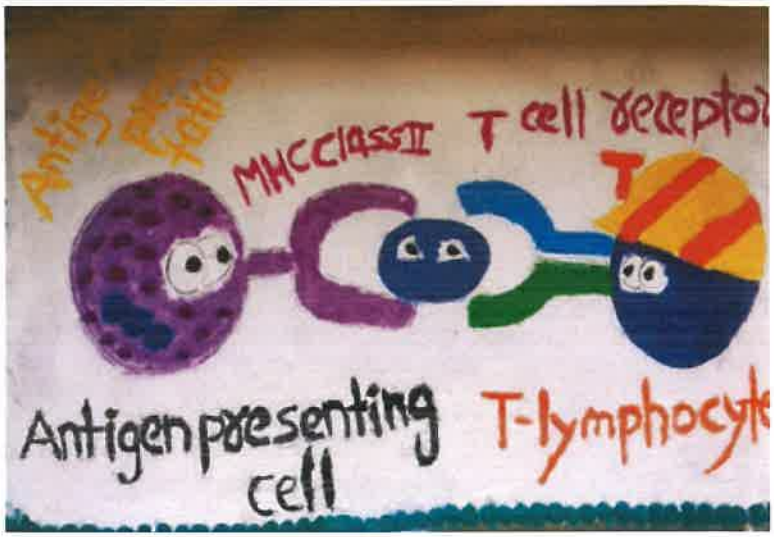
Principal
Swa.Sawarkar Mahavidyalaya
Beed

Immunology Rangoli Competition
(Wednesday,14th August 2019)



Principal
Swa.Sawarkar Mahavidyalaya
Beed

Immunology Rangoli Competition
(Wednesday,14th August 2019)



Principal
Swa.Sawarkar Mahavidyalaya
Beed

Immunology Rangoli Competition

(Wednesday,14th August 2019)

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Immunology Rangoli Competition
(Wednesday,14th August 2019)

Principal
Swa.Sawarkar Mahavidyalaya
Beed

Immunology Rangoli Competition
(Wednesday,14th August 2019)

Memorandum of Understanding

Between

Department of English

Swa.Sawarkar Mahavidyalaya

And

English Educators Society Morewadi ,Tal Ambajogai Dist.Beed

The Memorandum of Understanding (MOU) sets for the term and understanding between Department of **English of Swa.Sawarkar Mahavidyalaya Beed and English Education Society ,Ambejogai** to work together for further co operation ,cultural Activities in common interests of two institutions .

Both departments of respective institutions are interested in establishing academic co operation agreements in order to assist in the achievement of goals and objectives of higher education purpose

Department of English, Swa.Sawarkar Mahavidyalay Beed and English Educators Society Ambajogai jointly agree in order to promote the following activities

a. Research purpose
b. Exchange of teaching and research personnel
c. Exchange of E-Resources
d. Exchange of knowledge of by organizing National /International conferences /Seminars workshops /Symposia
e. Assistance for the students placements of both institutes
f. T o work jointly for the students and society oriented programme

uration:

This MOU is commence from academic year 2022-2023 to life time period and may be modified by mutual consent of authorized officials from both institutions ,this MOU shall become effective upon signature by the authorized officials from **the department of English Swa.Sawarkar Mahavidyalaya Beed and English Educators Society Ambejogai** and will remain in effect until modified of terminated by any one of the partners by mutual consent

greement:

This agreement constitutes the entire agreement and understanding between the parties s to the subject matter thereof and the supersedes all prior discussions ,agreement and nderstanding of every kind and nature between then whether ,written or oral with respect to ach subject matter .This agreement may subsequently be modified only by a written ocuments executed by both faculties

ll activities shall be subject to the availability of funds and the approval of each institutions uthorized representatives of both the institution

Principal
Swa.Sawarkar Mahavidyalaya Beed

Secretary
English Educators Society Ambejogai

HEAD
Department of English
Swa Sawarkar Mahavidyalaya,Beed

MOU Representative
Name: LG Bahegavankar
Designation :HOD
Mobile 9422744488
Mailid: lgbahegavankar@gmail.com

Secretary
The English Educators Society,
Ambajogai,Dist.Beed (MS)

MOU Representative
Name: Dr R A Ladage
Designation: Secretary
Mobile 9096684768
Mail Id: dr.rameshlandge1111@gmail.com

Bhartiya Shikshan Prasarak Sanstha, Ambajogai

Swa. Sawarkar Mahavidyalaya, Beed

Department of English

2022-23

Name of the Event

In Collaboration with

English Educator Society,Morewadi Tal. Ambajogai Dis. Beed

Type of the Activity

Collaborative

President
The English Educators Society,
Ambajogai,Dist.Beed

Dr.Laxmikant Bahegavankar
Head Dept.of English
Swa.Sawarkar Mahavidyalaya, Beed.

Principal
Swa.Sawarkar Mahavidyalaya,

Online Attendance

- Photograph of signed page

President
The English Educators Society
Ambajogai,Dist.Beed (MS)

Dr.Laxmikant Bahegavankar
Head Dept.of English
Swa.Sawarkar Mahavidyalaya, Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

भा.शि.प्र.संस्था,अंबाजोगाई
स्वा. सावरकर महाविद्यालय, बीड
सावरकर नगर, नेत्रधाम हॉस्पीटल समोर,
जालना रोड, बीड-४३११२२
नॅक समितीतर्फे 'ब' दर्जा प्राप्त

B.S.P.Sanstha Ambajogai
Swa. Sawarkar Mahavidyalaya
Beed-431122
NACC Re-accredited ' B ' Grade
Phone : 02442-295459
Email-veersawarkarbeed@gmail.com
Web Site : sawarkar.co.in

Principal Dr. Priti D. Pohekar
M.A.,SET, M.Phil, Ph.D.

- **OW** : SSMB/resource person/2022-2023/ Date : 26/11/2022

To.
Dr. Ramesh Landge
President English Educator Society
Morewadi Tal. Ambajogai Dist. Beed

Subject:- Invitation as a resource person for seminar

Respected Sir,

Swa. Sawarkar Collage, Beed is going to organize one day seminar on 26/11/2022 on the topic 'Marginal Literature in Current Era' . you are cordially invited as a resource person.

Thanking you

President
The English Educators Society
Ambajogai,Dist.Beed (MS)

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

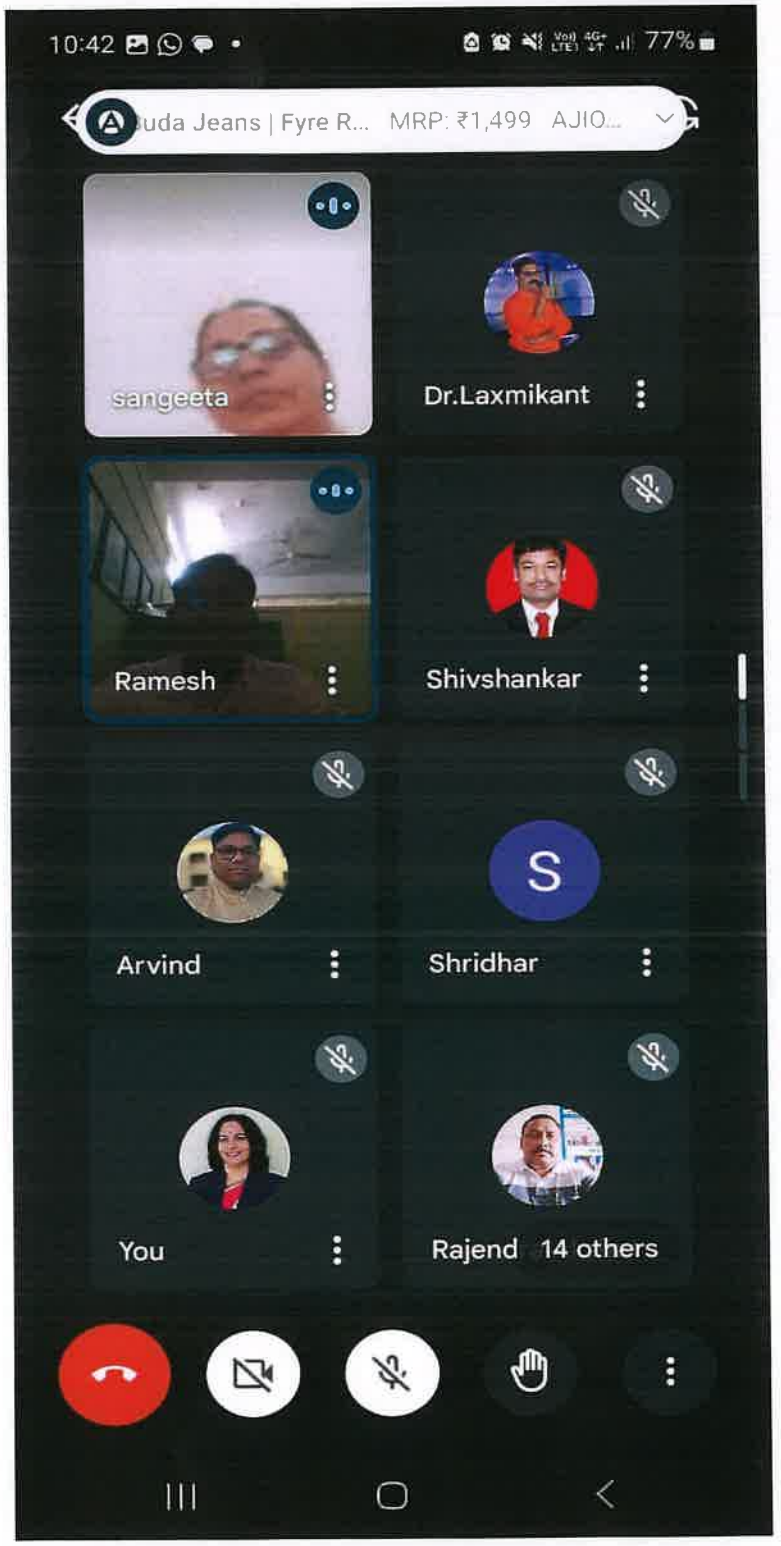
Objectives of the event

Summary of the Event

- The Seminar on Marginal Literature in Current Era has been organized by English Department on 26 Nov 2022
- The President of Programme : Principal Dr Pritee Pohekar
- HOD of English Department : Dr L G Bahegavankar
- Resource Person : Dr Ramesh Landage
- Vote of Thanks :Dr. Sangeeta Sasane
- Summary
- Online seminar on Marginal Literature in Current Era has been organized , Dr Bahegavankar has introduced the prograamme and concept of Marginal literature ,the Resource Person Dr Landage has delivered speech with all the spheres of Marginal Literature . Principal Dr Pritee Pohekar has given the presidential speech with the new touch of all the marginality in social sphere
- Vote of thanks has been presented by Dr Sangeeta Sasane
- The Programme is concluded with *Shantimantra*

President
The English Educators Society,
Ambajogai,Dist.Beed (MS)

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

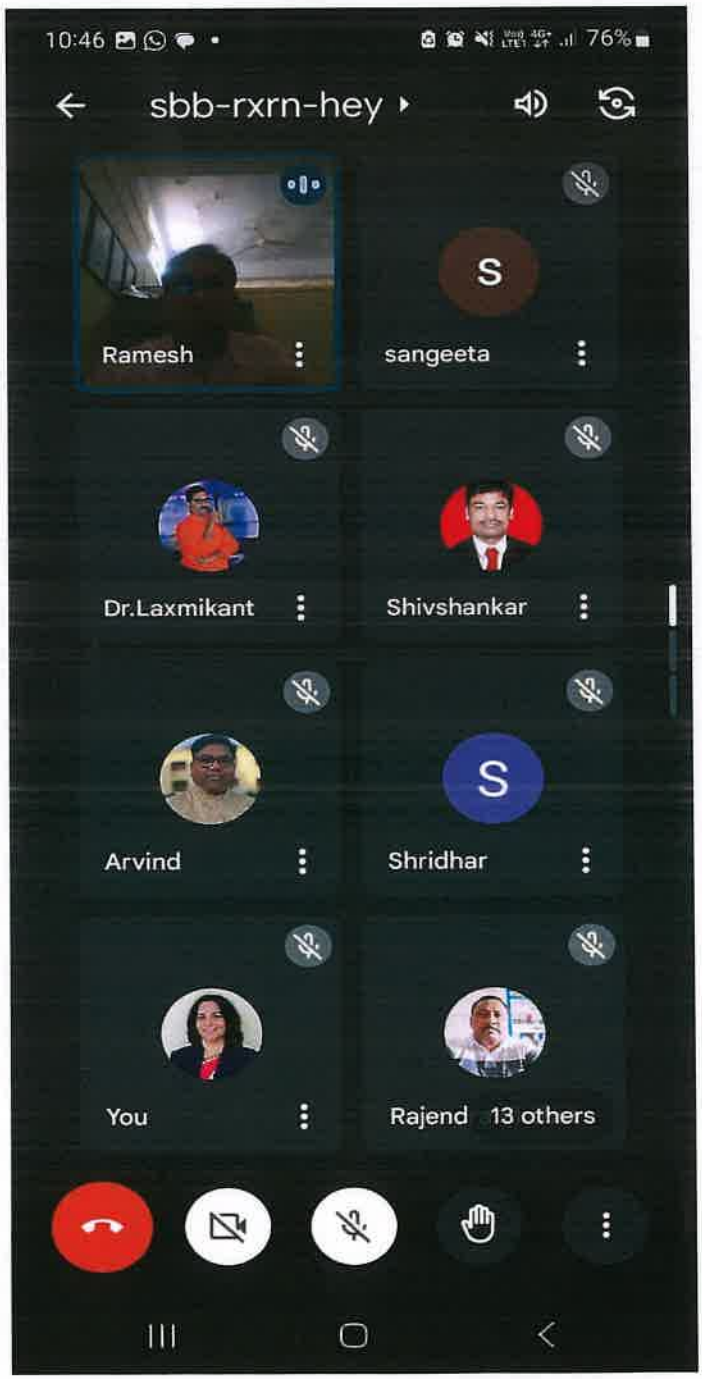


President
The English Educators Society,
Ambajogai,Dist.Beed (MS)

Dr.Laxmikant Bahegavankar
Head Dept.of English
Sawarkar Mahavidyalaya, Beed

Principal
Sawarkar Mahavidyalaya,
Beed.

- **Geo tag/GPS Photographs with proper/suitable caption & Date**
- **Sessionwise**



President
The English Educators Society,
Ambajogai, Dist.Beed (MS)

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

भा.शि.प्र.संस्था,अंबाजोगाई
स्वा. सावरकर महाविद्यालय, बीड
सावरकर नगर, नेत्रधाम हॉस्पीटल समोर,
जालना रोड, बीड-४३११२२
नॅक समितीतर्फे 'ब' दर्जा प्राप्त

B.S.P.Sanstha Ambajogai
Swa. Sawarkar Mahavidyalaya
Beed-431122
NACC Re-accredited ' B ' Grade
Phone : 02442-295459
Email-veersawarkarbeed@gmail.com
Web Site : sawarkar.co.in

Principal Dr. Priti D. Pohekar
M.A.,SET, M.Phil, Ph.D.

OW : SSMB/resource person/2022-2023/ Date : 26/11/2022

To.
Dr. Ramesh Landge
President English Educator Society
Morewadi Tal. Ambajogai Dist. Beed

Subject:- Letter of thanks for speech

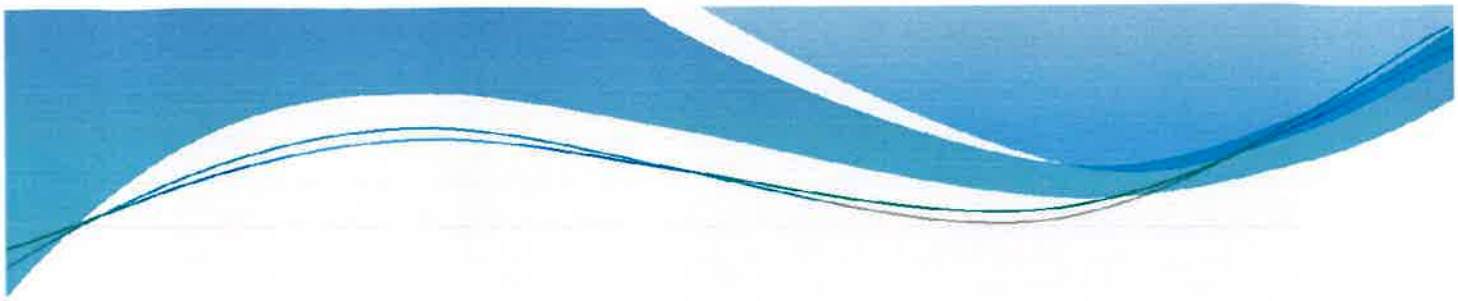
Respected Sir,

Thanks for being present as a resource persons of one day seminar organized on Date 26/11/2022 on the topic Marginal Literature in Current Era.

Thanking you

President
The English Educators Society,
Ambajogai,Dist.Beed (MS)

Principal
Principal
Swa.Sawarkar Mahavidyalaya,
Beed.



THANK YOU

भा.शि.प्र.संस्था,अंबाजोगाई
स्वा. सावरकर महाविद्यालय, बीड
सावरकर नगर, नेत्रधाम हॉस्पीटल समोर,
जालना रोड, बीड-४३११२२
नॅक समितीतर्फे 'ब' दर्जा प्राप्त

B.S.P.Sanstha Ambajogai
Swa. Sawarkar Mahavidyalaya
Beed-431122
NACC Re-accredited ' B ' Grade
Phone : 02442-295459
Email-veersawarkarbeed@gmail.com
Web Site : sawarkar.co.in

Principal Dr. Priti D. Pohekar
M.A.,SET, M.Phil, Ph.D.

OW : SSMB/resource person/2022-2023/ 2731 Date : 26/11/2022

To.
Dr. Ramesh Landge
President English Educator Society
Morewadi Tal. Ambajogai Dist. Beed

Subject:- Invitation as a resource person for seminar

Respected Sir,

[redacted], Swa. Sawarkar College, Beed is going to organize one day seminar on 26/11/2022 on the topic 'Marginal Literature in Current Era' . you are cordially invited as a resource person.

Thanking you

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Principal

Received

भा.शि.प्र.संस्था,अंबाजोगाई
स्वा. सावरकर महाविद्यालय, बीड
सावरकर नगर, नेत्रधाम हॉस्पीटल समोर,
जालना रोड, बीड-४३११२२
नॅक समितीतर्फे 'ब' दर्जा प्राप्त

B.S.P.Sanstha Ambajogai
Swa. Sawarkar Mahavidyalaya
Beed-431122
NACC Re-accredited ' B ' Grade
Phone : 02442-295459
Email-veersawarkarbeed@gmail.com
Web Site : sawarkar.co.in

Principal Dr. Priti D. Pohekar
M.A.,SET, M.Phil, Ph.D.

OW : SSMB/resource person/2022-2023/ 273-2 Date : 26/11/2022

To.
Dr. Ramesh Landge
President English Educator Society
Morewadi Tal. Ambajogai Dist. Beed

Subject:- Letter of thanks for speech

Respected Sir,

Thanks for being present as a resource persons of one day seminar organized on 26/11/2022 on the topic Marginal Literature in Current Era.

Thanking you

Principal

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Received

Memorandum of Understanding

Between

Department of English

Swa.Sawarkar Mahavidyalaya

And Department of English

Milliya College Beed

The Memorandum of Understanding (MOU) sets for the term and understanding between Department of English of Swa.Sawarkar Mahavidyalaya Beed and Milliya College Beed to work together for further co operation, cultural Activities in common interests of two institutions.

Both departments of respective institutions are interested in establishing academic co operation agreements in order to assist in the achievement of goals and objectives of higher education purpose

Department of English, Swa.Sawarkar Mahavidyalay Beed and Milliya College Beed jointly agree in order to promote the following activities

a. Research purpose
b. Exchange of teaching and research personnel
c. Exchange of E-Resources
d. Exchange of knowledge of by organizing National /International conferences /Seminars workshops /Symposia
e. Assistance for the students placements of both institutes
f. To work jointly for the students and society oriented programme

Duration:

This MOU is commence from academic year 2022-2023 to life time period and may be modified by mutual consent of authorized officials from both institutions ,this MOU shall become effective upon signature by the authorized officials from the department of English Swa.Sawarkar Mahavidyalaya Beed and Department of English,Milliya College Beed and will remain in effect until modified or terminated by any one of the partners by mutual consent

Agreement:

This agreement constitutes the entire agreement and understanding between the parties as to the subject matter thereof and the supersedes all prior discussions ,agreement and understanding of every kind and nature between then whether ,written or oral with respect to such subject matter .This agreement may subsequently be modified only by a written documents executed by both faculties

All activities shall be subject to the availability of funds and the approval of each institutions authorized representatives of both the institution

Principal

Swa .Sawarkar Mhavidyalaya Beed

Principal
Swa Sawarkar Mahavidyalaya,
Beed.

Principal
Milliya Arts Science & Mang
Scienoe College,Beed.

MOU Representative:

Name: LG Bahegavankar

Designation .HOD

Mobile 9422744488

Mailed: lgbahegavankar@gmail.com

MOU Representative

Name: Dr Anees Abdul

Designation: HOD

Mobile

Mail id:

W/S/C 2021-22

Detailed Report

Title of Programme:		Seminar		
Name of Organizing Department/Unit:		**English Department**		
Name of the Coordinator(s)/Convener(s)/ Organizer(s)of the Programme:		Dr. L G Bahegvankar		
Date(s) of the Programme:		30 January 2022		
Venue:		Swa. Sawarkar Mahavidyalaya Beed		
Target Group:		Student/Teacher/Village People		
Number of Participants:		**Male**	**Female**	**Total**
	Teaching	15	06	21
	Non-teaching	Nil	Nil	Nil
	Students	15	10	25
Name(s)and details of Resource Person(s),		Dr Anees Abdul Rashid Abdul		
Topic		Changing Face of English Language in Global Era.		
Total Expenditure for the Programme:		-		
Source of Funding:		-		

Brief Summary of Events/Sessions:

English Department has organized seminar on the English language and the new form of English in new era with multiple new approaches in the current global Era.

In charge Principal Dr C B Pangarkar was the President of seminar. Dr .L. G. Bahegvankar introduced the concept of seminar with the detailed explanation of the

Theme, the resource person is Dr Anees Abdul Rsheed Abdul who has addressed the student and preset his views about the theme

, Dr Bahegavankar has introduced the resource person and given brief introduction of the seminar, its objectives and other benefits to the students

Principal
Milliya Arts Science & Mang Science College,Beed.

Swa.Sawarkar Mahavidyalaya, Beed. B.S.P.S Ambajogai

Head, Dept. of English, Milliya Arts,Sci.and Management Sci. College,Beed. 431122(M.S.)

Principal
Swa.Sawarkar Mahavidyalaya, Beed.

Detailed Report

The Topic of speech - Changing Face of English in Global

Dr C B Pangarkar has given the presidential address, has narrated the importance of English in Global Era and how the form of language has been changing since entry of social media in the current scenario of life

The vote of thanks has been presented by Dr Sangeeta Sasane and programme has concluded with *Pasayadan*

The above programme has been organized under the collaborative activity of Department with English Department Milliya College Beed

Conclusion, with Feedback on the Programme:

The seminar benefited the students as they have been understood the new form of language in the era of globalization

Notice/Flyer/News Paper/Other Publicity Resources: Yes

Photographs: Yes

List of participants with signature:- yes

Head, Dept.of English,
Milliya Arts,Sci.and Management
Sci. College,Beed. 431122(M.S.)

Dr.Laxmikant Bahegavankar
Head Dept.of English
Swa.Sawarkar Mahavidyalaya, Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Principal
Milliya Arts Science & Mang.
Science College,Beed.

English Department, Swa. Sawarkar Mahavidyalaya Beed
Organise, Seminar on the topic of
New Changing face of English in Global Era.
Resource person - Dr. Abdul Anees Abdul Rasheed.
Date - 30. 01. 2023

Dr.Laxmikant Bahegavankar
Head Dept.of English
Swa.Sawarkar Mahavidyalaya, Beed.

Attendance

1) Dr. S. S. Sasane
2) Choudhari B. Y
3) Dr. Kande S. A.
4) A. N. Raut
5) Dr Deo B. N
6) Dr. B. B. Nagarbhoje
7) Dr. Kunde S. S.
9] Waghmare Nikhil Nitin.
10] Kapale Pavan Baban.
11) Shinde Ajay Arvind
12) Gaud Vaibhavi Umakant
13) Joshi Ganesh Bhaskarrao
14) Suyog Bhagwat Joshi
15) Ashwini Siddheshwar Ufade
16) Madhula basweshwar Ufalwadkar
17) Dipali Kshirsagar
18) Sachin bahire

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Head, Dept.of English,
Milliya Arts,Sci.and Management
Sci. College,Beed. 431122(M.S.)

Swa.Sawarkar Mahavidyalaya, B.S.P.S Ambajogai, Beed.

Principal
Milliya Arts Science & Ma[nagement]
Science College,Beed

Dr.Anees Abdul Rasheed Abdul has addressed the students

Head, Dept of English,
Milliya Arts,Sci.and Management
Sci. College,Beed. 431122(M.S.)

Principal
Milliya Arts Science & Mang
Science College,Beed.

Swa.Sawarkar Mahavidyalaya, Beed
B.S.P.S
Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

28
27

ACADEMIC AND RESEARCH COLLABORATION BETWEEN

Department of Home Science

Swa. Sawarkar Arts, Science & Commerce College Beed.

&

Department of Home Science

JSP Mandal's

Arts & Science College, Shivajinagar Gadhi, Tq. Georai Dist. Beed [M.S]

From Academic Year: 2019-20

Swa.Sawarkar Mahavidyalaya, B.S.P.S Ambajogai. Beed.

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

Collaboration

Between

Department of Home Science

Swa. Sawarkar Arts, Science & Commerce College BEED

Department of Home Science

JBSP Mandal's

Arts & Science College Shivajinagr Gadhi. Tq. Georai, Dist. Beed.[M.S]

The Modern Education System at higher levels demands exposure of students to outside classroom world for a better understanding and practical experience which enables them to develop the intellectual levels. Only classroom teaching is insufficient to the total development of the students personality.

At higher levels of education, research plays a very important role not only for an individual'sintellectual development but as one's own contribution to the society also.in accordance with above academic desire to take the guidance of experts, the " Swa. Sawarkar Arts, Science & Commerce College Beed" has entered into this formal statement of collaboration in the form of "Linkage" with effect from 01 July 2019 to 30 June 2024 for encouraging students and faculty in getting a very training through programs/Lecture series [Online and Offline] / Seminar / Conference/ Webinar /Workshop / Competition / Poster presentation Essay competition / Quiz / etc. to be suggested by Department of Home Science JBSP Mandal's, Arts & Science College Shivajinagr, Gadhi. Tq. Georai, Dist. Beed [MS]

Swa.Sawarkar Mahavidyalaya,Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

The institution has agreed to explore and utilise the guidance and cooperation of faculty of department for the following purpose

1. Review our Curriculum, Teaching and Research Practices and discuss ways in which courses could be revised to promote optimal research work and academic proficiency among our students.

2. Collaboration with Faculty and Students linkage in online and offline exchange of Ideas which might be the basis for academic development activities such as Guest Lectures, FDPs, Symposiums, Conferences, seminars, and workshops for our faculty and student.

3. It is highly desirable to have exposure and interaction with external agencies for a practical knowledge.

4. Collaborations in the sharing of academic data, scientific information, intellectual property, articles and publications:

5. This Linkage is subject to review at the end of the first year By the Principal and Department Head Of Both Collage and shall be effective for subsequent years (to a maximum of five).

6. It shall be subject to revision, modification or renewal by mutual written Linkage. Either party may terminate the Linkage by written notice submitted at least 90 days in advance of the next academic semester. Termination would not affect students already engaged in the exchange.

7.If the Linkage is not renewed by mutual consent, the Agreement will conclude at the end of the specified time period, or after activities in progress have concluded.

It is understood that the details of joint activities conditions for utilization of results achieved arrangements for specific visit exchange

Swa.Sawarkar Mahavidyalaya,Beed. B.S.P.S Ambajogai

Principal
Swa.Sawarkar Mahavidyalaya,
Beed.

and all other forms of cooperation will be handled on a mutually agreeable terms for each specific case.

Principal Arts, Science & Commerce Tq.General, Dist.Beed	Principal Swa.Sawarkar Mahavidyalaya Beed.
Arts and Science College IQAC Coordinator	IQAC Coordinator
Department of Home Science	Department of Home Science
College Seal	Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Dist. Beed

Swa.Sawarkar Mahavidyalaya B.S.P.S. Ambajogai Dist. Beed

Principal
Swa.Sawarkar Mahavidyalaye,
Beed.

दिनांक :- २०.०२.२०२३

भा.शि.प्र.सं. अंबाजोगाई

स्वा. सावरकर महाविद्यालयात

गृहविज्ञान विभाग

शैक्षणीक वर्ष - २०२२-२३

तृणधान्य जनजागृती कार्यक्रम

गृहविज्ञान विभागात तृणधान्य जनजागृती कार्यक्रम संपन्न.

केंद्र सरकारणे सन २०२३ हे वर्ष "तृणधान्य वर्ष" म्हणून घोषित केले आहे. त्या अनुषंगाने स्वा. सावरकर महाविद्यालयात गृहविज्ञान विभागात " तुणधान्याचे आहारातील महत्व" या विषयावर कला, विज्ञान महाविद्यालय शिवाजीनगर गढी येथिल प्राध्यापिका डॉ. रानी जाधव, यांचे व्याख्यान आयोजित करण्यात आले. या कार्यक्रमाचे प्रास्ताविक गृहविज्ञान विभागप्रमुख डॉ. सुवर्णा तालखेडकर यांनी केले. या कार्यक्रमास अध्यक्ष म्हणून महाविद्यालयाच्या प्राचार्या डॉ. प्रीती पोहेकर उपस्थित होत्या. "तृणधान्य वर्ष - २०२३" याचे औचित्य साधून गृहविज्ञान विषयाची विद्यार्थिनी शिवानी कुटे हिने तयार केलेल्या गौरव भित्तीपत्रकाचे प्रकाशन मान्यवरांच्या हस्ते करण्यात आले.

व्याख्यानात बोलतांना डॉ. रानी जाधव यांनी तृणधान्याचे आहारात महत्व काय आहे हे सांगितले. तृणधान्य नियमित सेवनामुळे लठ्ठपणा, हृदयविकार,मधुमेह, मोठया आतडयाचा कॅन्सर होण्याचा धोका कमी होतो. पॉलिश केलेले तृणधान्ये शिजविण्यासाठी सोपे आणि पचनासाठी हलके असते. मात्र हे धान्य ज्यावेळी पॉलिश केले जाते त्यावेळी त्यातील पोषण मूल्य निघून जातात हे ही आवर्जून सांगितले तसेच आपल्या व्याख्यानात तृणधान्याचे फायदे सांगताना त्यातील लॅक्टीक ॲसिड मोठया आतडयातील चांगल्या जिवाणूंच्या वाढीस मदत करते. या जिवाणूमुळे शरीरातील पचनक्रिया सुधारते. पोषणाचे शोषण अधिक चांगल्या रीतीने होते रोगप्रतिकारक शक्ती वाढते.

या कार्यक्रमाचा अध्यक्षीय समारोप महाविद्यालयाच्या प्राचार्या डॉ. प्रीती पोहेकर यांनी केला. समारोपात बोलतांना त्यांनी तृणधन्यावर सखोल माहिती दिली.

तृणधान्ये हा ऊर्जा देणारा सर्वोत्तम स्त्रोत आहे. बहुतांश देशांमध्ये याचा मुख्य आहारामध्ये समावेश आहे. सध्या ओट्सना विशेष मागणी आहे. त्यातूनही पोषणतत्वे शरीराला प्राप्त होतात. आहारात चरबीयुक्त पदार्थचे सेवन टाळून फायबरचा वापर जास्तीत जास्त करा असेही त्यांनी सांगितले. भविष्यातील सुदृढ व आरोग्यदायी समाजासाठी प्रत्येकानेच या कार्यक्रमाचा भाग होवून पौष्टिक तृणधान्यांचा आहारात नियमित वापर करण्याची आवश्यकता असल्याचे सांगितले व अध्यक्षीय समारोप केला.

कार्यक्रमाचे आभार प्रदर्शन डॉ. सुवर्णा तालखेडकर यांनी केले. सामुहिक पसायदानाने कार्यक्रमाची सांगता झाली.

विभाग प्रमुख
HEAD
Department of Home Science
Swa.Sawarkar Mahavidyalaya, Beed,

Swa.Sawarkar Mahavidyalaya, Beed ★ Office Seal

प्राचार्या
स्वा.सावरकर महाविद्यालय
बीड.

Head
Department of Home Science
Arts and Science College
Shivajinagar, Gadhi Dist.Beed

Principal
Arts & Science College,Shivajinagar
Gadhi, Tq.Georai Dist.Beed

भा.शि.प्र.संस्था, अंबाजोगाई

स्वा. सावरकर महाविद्यालय, बीड

गृहविज्ञान विभाग,

तृणधान्य जनजागृती कार्यक्रम संपन्न.

दिनांक :- २०/०२/२०२३ वेळ

उपस्थित विद्यार्थीनी

अ.क्र.	सहभागी विद्यार्थीनी	स्वाक्षरी
१)	मनिषा पुराणिक	
२)	शैला शेटे	
३)	सुलोचना राजे	
४)	नंदिनी उपरे	
५)	सरीता सर्वज्ञ	
६)	पुजा आतकरे	
७)	वैष्णवी मानूरकर	
८)	भाग्यश्री जोशी	
९)	अश्वीनी अजबे	
१०)	शिवानी कुटे	
११)	आरती कुलकर्णी	
१२)	शिवाजी मुंडे	
१३)	सरीता मोहिते	
१४)	मानसी अखाडे	
१६)	अजय गुंजाळ	
१७)	ऐश्वर्या साळुंके	
१८)	पल्लवी बेदरकर	
१९)	गार्गी जोशी	
२०)	भाग्यश्री घुमरे	

विभाग प्रमुख
HEAD
Department of Home Science
Swa.Sawarkar Mahavidyalaya, Beed.

Swa.Sawarkar Mahavidyalaya, Beed
Office Seal

प्राचार्य
स्वा.सावरकर महाविद्यालय
बीड.

Head
Department of Home Science
Arts and Science College
Shivajinagar, Gadhi Dist.Beed

Principal
Arts & Science College,Shivajinagar
Gadhi, Tq.Georai Dist.Beed

तृणधान्य जनजागृती कार्यक्रमात

गौरव भित्तीपत्रकाचे मान्यवरांच्या हस्ते प्रकाशन

दिनांक. २०/०२/२०२३.

" तुणधान्याचे आहारातील महत्व" या विषयावर डॉ. रानी जाधव, यांचे व्याख्यान.

दिनांक. २०/०२/२०२३

Head
Department of Home Science
Arts and Science College
Shivajinagar, Gadhi Dist.Beed.

HEAD
Department of Home Science
Swa.Sawarkar Mahavidyalaya, Beed

Office Seal

Principal
Arts & Science College,Shivajinagar
Gadhi, Tq.Georai Dist.Beed

प्राचार्य
स्वा.सावरकर महाविद्यालय
बीड.