



Vidya Vikas Education Society's  
**VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE**  
Affiliated to University of Mumbai  
ISO 9001:2015 CERTIFIED



**Department of Biotechnology**

**MSc BIOTECHNOLOGY**

**Project Dissertation Report from A.Y. 2018-19 to 2022-23**

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1) Project Dissertation Report of A.Y. 2018-19

**VIDYA VIKAS EDUCATION SOCIETY'S  
VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE**

DEPARTMENT OF BIOTECHNOLOGY

**PROJECT DISSERTATION REPORT A.Y. 2018-19**

**POSTGRADUATE COURSE**

**A] Programme Name : M.Sc. (Biotechnology)**

**B] Programme Code :1S01121**

**C] Semester : IV**

**D] Name of the Course that include experiential learning through project :  
Practicals (100 Marks) + Project Work (100 Marks) (Total 200 Marks)**

**E] Course Code :USBTP403 + USBTP404**

**F] Project Dissertation Objectives :**

1. To develop independent research skill, project designing and writing research paper/ review skill.
2. To prepare the learners to adapt to the research environment and understand how projects are executed in a research laboratory. It will also enable learners to learn practical aspects of research and train learners in the art of analysis and thesis writing

**G] Outcomes of the Project work :**

1. To understand the importance of research methodology concepts and to put them in practice while working on dissertation projects.
2. To acquire the technical writing skills and presentation skills apart from practically utilizing all aspects of research methodology that they had learned earlier.
3. To be able to integrate all aspects of the research project into a dissertation of print form as can be evaluated by internal and external experts



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**H] List of Learners and Project Titles :**

Sr. No.	Name of the Learner	Title of the Project
1	Sagar Nivedita Tanaji Vandana	Antibacterial Activity Of Honey On Staphylococcus Aureus Escherichia Coli And Streptococcus Pyogen Isolated From Wound
2	Jadhav Anuja Eknath Nirmala	Isolation And Identification Of Bacteria From Food Vendors
3	Dabhekar Supriya Govind Gangubai	The Effect Of Temperature On The Percentage Of Germination Of Cereal Beans
4	Vishwakarma Shweta Anilkumar	Microbiological Analysis of Cooked Food and Raw Food
5	Kadam Akash Pramod Lata	Comparative Analysis Of Antimicrobial Strength Of Three Most Common Antibiotics
6	Mhamunkar Anupriya Abhinay Rekha	Degradation Of Industrial Paint Effluents By Soil Bacteria Isolated From Its Environment
7	Yadav Abhishek Rampyare Harmatl	Parasitological Examination of Some Ready To Eat Fruits

**I] Duration of the Project work (As per prescribed by the University) : 4-6 Months**

**J] Evaluation Pattern prescribed by the University :**

1. Mandatory for learner to undergo Hands-on Project training in an established research laboratory or college laboratory
2. This should involve one or more relevant instrumentation technique.
3. Dissertation/Thesis on the same to be evaluated by the guide alternatively by an internal examiner for 50M based on the student's performance, written matter and experimentation.
4. A certificate must be appended with the thesis.
5. The external examiner will assess for 50M as a Presentation during practical exams.

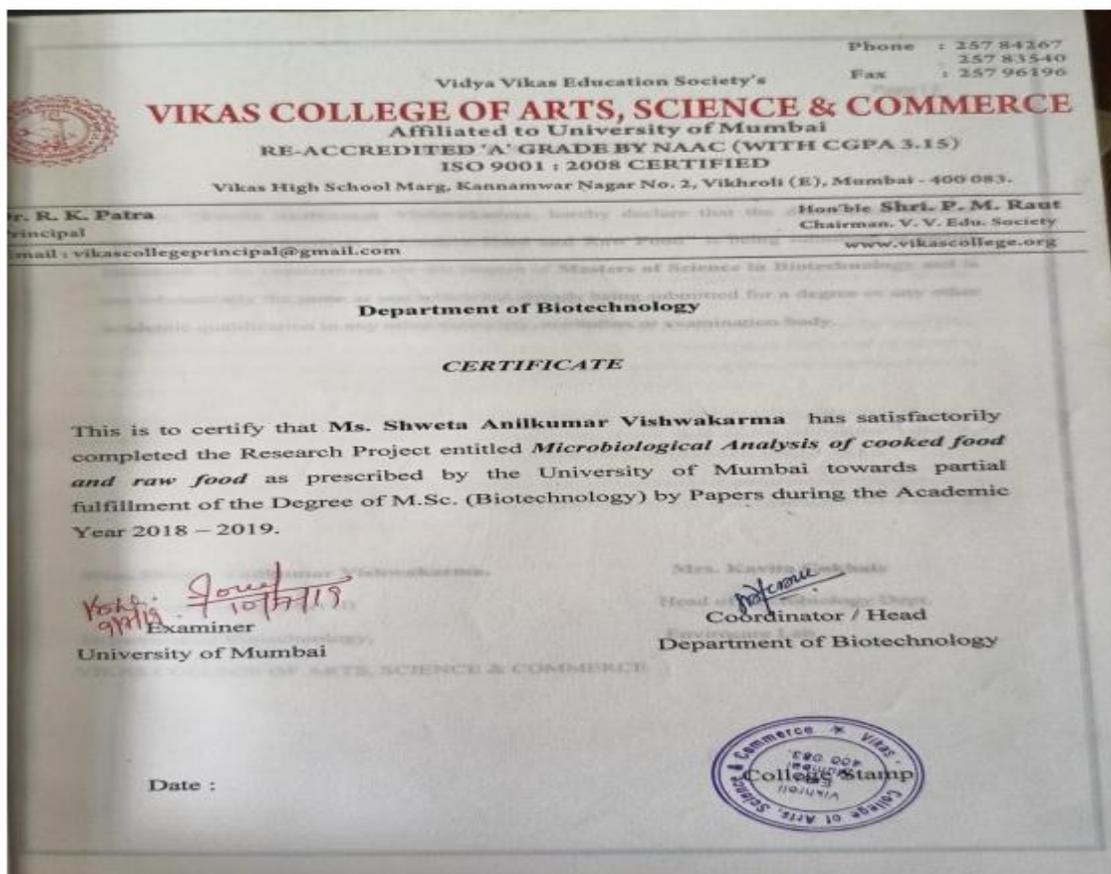


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6. Total Marks assigned to the learner out of 100 as mentioned in Point No. 3 & 5 to be included in the overall total marks of 200 at Semester IV University Practical Examination.

**K) Certificate of the learner**



**Head, Dept. of Biotechnology**

*[Signature]*  
 PRINCIPAL  
 VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE  
 Vikhroli (E), Mumbai - 400 083.



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**2) Project Dissertation Report of A.Y. 2019-20**

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DEPARTMENT OF BIOTECHNOLOGY

**PROJECT DISSERTATION REPORT A.Y. 2019-20**

**POSTGRADUATE COURSE**

**A] Programme Name : M.Sc. (Biotechnology)**

**B] Programme Code :IS01121**

**C] Semester : IV**

**D] Name of the Course that include experiential learning through project :  
Practicals (100 Marks) + Project Work (100 Marks) (Total 200 Marks)**

**E] Course Code :USBTP403 + USBTP404**

**F] Project Dissertation Objectives :**

1. To develop independent research skill, project designing and writing research paper/ review skill.
2. To prepare the learners to adapt to the research environment and understand how projects are executed in a research laboratory. It will also enable learners to learn practical aspects of research and train learners in the art of analysis and thesis writing

**G] Outcomes of the Project work :**

1. To understand the importance of research methodology concepts and to put them in practice while working on dissertation projects.
2. To acquire the technical writing skills and presentation skills apart from practically utilizing all aspects of research methodology that they had learn earlier.
3. To be able to integrate all aspects of the research project into a dissertation of print form as can be evaluated by internal and external experts



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**H] List of Learners and Project Titles :**

Sr. No.	Name of the Learner	Title of the Project
1	Akshay Pandurang Waval	Microbiological Study of Fishes from Lake
2	Vedanti Devendra Samant	Isolation, Screening and Characterization of microbes from Garden Soil
3	Shahin Mohd Isak Pathan	In Vitro Study of Antimicrobial Activity of Fruit Peel Extracts Against Different Bacterial Strains
4	Saurabh Sampat Dhapte	Effect of Salt Concentration on the Physiological and Biochemical Characters of local varieties of Rice
5	Humaira Ahasanullah Khan	Physical, Chemical and Microbial Analysis of Drinking Water from Public Place Water Reservoir
6	Ronit Harishchandra Rokade	Antimicrobial activity of Aloe vera extracts against some selected bacterial pathogens
7	Manish Kolamkar	In vitro Study of antimicrobial activity of domestic spices on Yeast Cell
8	Pragya Kuldeep Rana	Effect of Heavy Metals on the Activity of Selected Plants

**I] Duration of the Project work (As per prescribed by the University) : 4-6 Months**

**J] Evaluation Pattern prescribed by the University :**

1. Mandatory for learner to undergo Hands-on Project training in an established research laboratory or college laboratory
2. This should involve one or more relevant instrumentation technique.
3. Dissertation/Thesis on the same to be evaluated by the guide alternatively by an internal examiner for 50M based on the student's performance, written matter and experimentation.
4. A certificate must be appended with the thesis.
5. The external examiner will assess for 50M as a Presentation during practical exams.
6. Total Marks assigned to the learner out of 100 as mentioned in Point No. 3 & 5 to be included in the overall total marks of 200 at Semester IV University Practical Examination.

**Head, Dept. of Biotechnology**

  
PRINCIPAL  
VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE  
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### 3) Project Dissertation Report of A.Y. 2020-21

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VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE**

DEPARTMENT OF BIOTECHNOLOGY

**PROJECT DISSERTATION REPORT A.Y. 2020-21**

**POSTGRADUATE COURSE**

**A] Programme Name :** M.Sc. (Biotechnology)

**B] Programme Code :** 1S01121

**C] Semester :** IV

**D] Name of the Course that include experiential learning through project :**  
Practicals (100 Marks) + Project Work (100 Marks) (Total 200 Marks)

**E] Course Code :** USBTP403 + USBTP404

**F] Project Dissertation Objectives :**

1. To develop independent research skill, project designing and writing research paper/ review skill.
2. To prepare the learners to adapt to the research environment and understand how projects are executed in a research laboratory. It will also enable learners to learn practical aspects of research and train learners in the art of analysis and thesis writing

**G] Outcomes of the Project work :**

1. To understand the importance of research methodology concepts and to put them in practice while working on dissertation projects.
2. To acquire the technical writing skills and presentation skills apart from practically utilizing all aspects of research methodology that they had learn earlier.
3. To be able to integrate all aspects of the research project into a dissertation of print form as can be evaluated by internal and external experts



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**H] List of Learners and Project Titles :**

Sr. No.	Name of the Learner	Title of the Project
1	Sayali A. Chndanshive	Corona Virus Antigen & Vaccine Development
2	Vedika V. Gorivale	Treatments for Type 2 Diabetes Infected with COVID - 19
3	Jyoti S. Gupta	Neutraceuticals in Management of Health & Diseases
4	Amey S. Halbe	Sweet Potato Buds : The Origin of A Designer Food to combat with hypovitaminosis in Guatemala processing , Vitamin A content and Preservation Characteristics
5	Parag Kamble	Metagenomics – Environmental Flora & Human Gut Flora
6	Shraddha A. Raul	Impact of Co-morbidities on Patients with COVID-19 : Evidence from Meta Analysis
7	Ruturaj R. Ratwal	Biological Barrier of Nanocarrier Mediated Delivery of Therapeutic and Imaging Agent
8	Nadeem Siddiqui	Ecotoxicological and Kinetics Study of Silver and Zinc Oxide Nanoparticles and their impacts in Albino Mice Male
9	Ankit S. Singh	Transcriptomic, Metabolomics & Lipidomics of Chronically Injured Alveolar Epithelial Cells Reveals Similar Features of IPF Lung Epithelium

**I] Duration of the Project work (As per prescribed by the University) : 4-6 Months**

**J] Evaluation Pattern prescribed by the University :**

1. Mandatory for learner to undergo Hands-on Project training in an established research laboratory or college laboratory
2. This should involve one or more relevant instrumentation technique.
3. Dissertation/Thesis on the same to be evaluated by the guide alternatively by an internal examiner for 50M based on the student's performance, written matter and experimentation.
4. A certificate must be appended with the thesis.
5. The external examiner will assess for 50M as a Presentation during practical exams.



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6. Total Marks assigned to the learner out of 100 as mentioned in Point No. 3 & 5 to be included in the overall total marks of 200 at Semester IV University Practical Examination.

**K] Certificates of the Learners from the Project Dissertation signed by the Examiners**



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**4) Project Dissertation Report of A.Y. 2021-22**

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VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE**

DEPARTMENT OF BIOTECHNOLOGY

**PROJECT DISSERTATION REPORT A.Y. 2021-22**

**POSTGRADUATE COURSE**

**A] Programme Name : M.Sc. (Biotechnology)**

**B] Programme Code :1S01121**

**C] Semester : IV**

**D] Name of the Course that include experiential learning through project :  
Practicals (100 Marks) + Project Work (100 Marks) (Total 200 Marks)**

**E] Course Code :USBTP403 + USBTP404**

**F] Project Dissertation Objectives :**

1. To develop independent research skill, project designing and writing research paper/ review skill.
2. To prepare the learners to adapt to the research environment and understand how projects are executed in a research laboratory. It will also enable learners to learn practical aspects of research and train learners in the art of analysis and thesis writing

**G] Outcomes of the Project work :**

1. To understand the importance of research methodology concepts and to put them in practice while working on dissertation projects.
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**H] List of Learners and Project Titles :**

Sr. No.	Name of the Learner	Title of the Project
1	Aaradhan Ramsagar Gupta	Study of antibacterial activity of <i>Allium sativum</i> , <i>Zingiber officinalis</i> and <i>Curcuma longa</i> extracts against <i>Staphylococcus aureus</i> and <i>Escherichia coli</i>
2	Simran Sanjay Jadhav	Development of Diagnostic Methods for Cardiovascular Attack by Detecting the Levels of troponin T, hs troponin and ntProBNP
3	Pranaleeka Dadaji Nagrale	Extraction of beta carotene pigment from carrot waste and its widespread applications
4	Harshada Sanjay Nikam	Waste Management Opportunities for rural areas using composting technique
5	Kalpesh Ashok Patil	Immune Responses in <i>Bombyx mori</i> (Silkworm) infected with Uzi Fly <i>Exorista bombycis</i>
6	Pooja Manoj Patil	Antimicrobial Activity of <i>Moringa oleifera</i>
7	Sapna Suresh Patil	Phytochemical Analysis of <i>Bocapa moneri</i> (Bramhi), <i>Adathora vesica</i> (Adulsa), <i>Azadirachta indica</i> (Neem)
8	Anjali Prem Roy	Degradation of keratinase enzyme produced from <i>Bacillus subtilis</i>
9	Kunal Rajkumar Yadav	Isolation of <i>Lactobacillus</i> spp. From milk products and its probiotics properties for health benefits
10	Anushree Satish Zingade	Phytoremediation of Heavy Metals in Polluted soil by <i>Glycine max</i> (Soybean)

**I] Duration of the Project work (As per prescribed by the University) : 4-6 Months**

**J] Evaluation Pattern prescribed by the University :**

1. Mandatory for learner to undergo Hands-on Project training in an established research laboratory or college laboratory
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5. The external examiner will assess for 50M as a Presentation during practical exams.
6. Total Marks assigned to the learner out of 100 as mentioned in Point No. 3 & 5 to be included in the overall total marks of 200 at Semester IV University Practical Examination.

**Head, Dept. of Biotechnology**

  
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VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE  
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5) Project Dissertation Report of A.Y. 2022-23

**VIDYA VIKAS EDUCATION SOCIETY'S  
VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE**

DEPARTMENT OF BIOTECHNOLOGY

**PROJECT DISSERTATION REPORT A.Y. 2022-23**

**POSTGRADUATE COURSE**

**A] Programme Name : M.Sc. (Biotechnology)**

**B] Programme Code :1S01121**

**C] Semester : IV**

**D] Name of the Course that include experiential learning through project :  
Practicals (100 Marks) + Project Work (100 Marks) (Total 200 Marks)**

**E] Course Code :USBTP403 + USBTP404**

**F] Project Dissertation Objectives :**

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**H] List of Learners and Project Titles :**

Sr. No.	Name of the Learner	Title of the Project
1	Mayur Bapu Ahire	Standard Test For Syphilis
2	Akanksha Mangesh Chavan	Rapid test for detection of urinary track infections
3	Vishakha Rajaram Devkant	Rapid Antigen Test For Hepatitis B Surface Antigen
4	Kajal Sunil Dode	Rapid detection test for malaria
5	Poonam Uddhav Gavhane	Comparative study of haemoglobin by manual method using sahli's apparatus and Automated hematology analyzer
6	Harshada Suryakant Ghadge	Sample acceptance & rejection criteria for the respiratory sample
7	Anchal Surendra Gupta	Rapid Test For Typhoid
8	Ankita Manik Ingle	Hemoglobin variants detection by D-10 machine(HPLC technology)
9	Rutuja Siddharth Kharat	NACO Guidelines for HIV testing
10	Ritam durgesh tripathi	Cell block preparation for detection of various diseases

**I] Duration of the Project work (As per prescribed by the University) : 4-6 Months**

**J] Evaluation Pattern prescribed by the University :**

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6. Total Marks assigned to the learner out of 100 as mentioned in Point No. 3 & 5 to be included in the overall total marks of 200 at Semester IV University Practical Examination.

**K) Certificates of the Learner examined by external examiner during University practical examination**

Phone : 257 84267  
257 83540  
Fax : 257 96196

Vidya Vikas Education Society's  
**VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE**  
 Affiliated to University of Mumbai  
 RE-ACCREDITED 'A' GRADE BY NAAC (WITH CGPA 3.15)  
 ISO 9001 : 2008 CERTIFIED  
 Vikas High School Marg, Kannamwar Nagar No. 2, Vikhroli (E), Mumbai - 400 083.

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Principal  
 . R. K. Patra  
 Principal  
 mail : vikascollegeprincipal@gmail.com

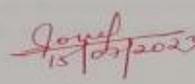
Hon'ble Shri. P. M. Raut  
 Chairman, V. V. Edu. Society  
 www.vikascollege.org

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DEPARTMENT OF BIOTECHNOLOGY

**CERTIFICATE**

This is to certify that **Ms. Rutuja Siddharth Kharat** has satisfactorily completed the Research Project titled *Evaluation of Serological Assays for the Diagnosis of HIV* as prescribed by the University of Mumbai towards partial fulfillment of the degree of M.Sc. (Biotechnology) by Papers during the Academic Year 2022-2-23.

  
 Examiner  
 University of Mumbai

  
 Head  
 Department of Biotechnology



Date :

  
 PRINCIPAL  
 VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE  
 Vikhroli (E), Mumbai - 400 083.



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**VIKAS COLLEGE OF ARTS, SCIENCE & COMMERCE**  
Affiliated to University of Mumbai  
RE-ACCREDITED 'A' GRADE BY NAAC (WITH CGPA 3.15)  
ISO 9001 : 2008 CERTIFIED  
Vikas High School Marg, Kannamwar Nagar No. 2, Vikhroli (E), Mumbai - 400 083.

r. R. K. Patra  
Principal  
mail : vikascollegeprincipal@gmail.com

Hon'ble Shri. P. M. Raut  
Chairman, V. V. Edu. Society  
www.vikascollege.org

DEPARTMENT OF BIOTECHNOLOGY

**CERTIFICATE**

This is to certify that Mr. Mayur Babu Ahire has satisfactorily completed the Research Project titled *Estimation of the Prevalence of Syphilis in Patients Visiting Tertiary Care Hospital* as prescribed by the University of Mumbai towards partial fulfillment of the degree of M.Sc. (Biotechnology) by Papers during the Academic Year 2022-2-23.

K. S. Patil  
15/07/23  
Examiner  
University of Mumbai

M. P. Patil  
Head  
Department of Biotechnology

College of Arts, Science & Commerce  
Vikhroli East  
Mumbai  
400 083  
Vikas  
College Seal

Date :



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**K) Certificates of the Learner received after completion of the project**

 **SOMAIYA**  
AYURVIHAR  
K J Somaiya Medical College & Research Centre

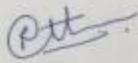


**CERTIFICATE**

Certify that this report submitted by *Ms. Rutuja Siddharth Kharat* student of *Vikas college of Arts, Commerce and Science, Vikhroli*, has completed her project work successfully for the subject "*Evaluation of Serological assays for the diagnosis of HIV.*" under the guidance of *Dr. PRACHI PAWAR.*

I have guided her for the said work from time to time and I found her to be satisfactory progressive during the Academic Year 2022-2023.

The said work has been assessed by me, the same is up to the standard envisaged for the level of the course and the said work may be presented to the External Examiner.

  
Dr. Prachi Pawar  
Assistant Professor  
K.J.Somaiya Medical College

  
Dr. Jyothirlata Bangera  
HOD Microbiology Dept.  
K.J.Somaiya Medical College

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 **SOMAIYA**  
AYURVIHAR  
K J Somaiya Medical College & Research Centre

 **Somaiya**  
TRUST

**CERTIFICATE**

Certify that this report submitted by *Mr. Mayur Babu Ahire* student of *Vikas college of Arts, Commerce and Science, Vikhroli*, has completed her project work successfully for the subject "*To estimate the prevalence of Syphilis in patients visiting Tertiary care Hospital.*" under the guidance of *Dr. PRACHI PAWAR*.

I have guided her for the said work from time to time and I found her to be satisfactory progressive during the Academic Year 2022-2023.

The said work has been assessed by me, the same is up to the standard envisaged for the level of the course and the said work may be presented to the External Examiner.

  
Dr. Prachi Pawar  
Assistant Professor  
K.J.Somaiya Medical College

  
Dr. Jyothirata Bangera  
HOD Microbiology Dept.  
K.J.Somaiya Medical College

K J Somaiya Medical College & Research Centre  
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