

**Documents of projects of
M.Sc.-II (Semester – IV)**

Chemistry

Session 2021-22

SEVADAL MAHILA MAHAVIDYALAYA

Place for Higher Learning & Research (Research Academy)
Sakkardara Square, Umrer Road, Nagpur-440009

Report on Projects/ Dissertations allotted to M. Sc.-II(Semester IV) Students of Subject Chemistry during the academic Session from 2016-17 to 2021-22


As per the Syllabus of M.Sc.-II(Semester-IV) Chemistry of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, all the students have to complete their project/Dissertation work under the guidance of faculty members and submit their projects.

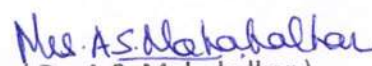
During session 2016 -22 projects were allotted to students on various topics. Various topics of the projects include synthesis of Phosphors Photoluminescence, physicochemical analysis, synthesis of polymer, adsorption, thermo luminescence and estimation of protein.

List of students along with the title of respective project topic and name of supervisor for the above mentioned academic sessions are enclosed herewith.

| S. No. | Academic session | No. of students enrolled for Semester- IV |
|--------|------------------|---|
| 1. | 2016-17 | 16 |
| 2. | 2017-18 | 15 |
| 3. | 2018-19 | 19 |
| 4. | 2019-20 | 14 |
| 5. | 2020-21 | 21 |
| 6. | 2021-22 | 29 |




Principal
Sevalal Mahila Mahavidyalaya
Umrer Road, Nagpur.


(Dr. A.S. Mahakalkar)

Incharge
P. G. Deartment of Chemistry
Sevalal Mahila Mahavidyalaya,
Nagpur

NAAC RE-ACCREDITED WITH 'A' GRADE

Sevadal Mahila Mahavidyalaya

Sakkardara Chowk, Umrer Road, Nagpur-440 009
Department of Chemistry – Academic Session 2021-2022

List of M. Sc. Projects

| Sr | Name of Student | Topic of M.Sc. Dissertation | Guide & Name |
|-----|---------------------|--|-------------------------|
| 1. | Akshata Y. Bande | Benzimidazoquinazolinone Derivatives: A Promising Anticancer Drug Analogue | Dr. Mrs. A.S.Mahakalkar |
| 2. | Kutika D. Gupta | Study of Physicochemical parameters of Honey from different region | Dr. Mrs. A.S.Mahakalkar |
| 3. | Yadvi B. Age | Hirshfield Surface and Supramolecular analysis of electron withdrawing group on Dihydropyrimidine compound | Dr. Mrs. A.S.Mahakalkar |
| 4. | Sushma V. Meshram | A Study of Physico chemical parameters of Honey from Different Regions | Dr. Mrs. A.S.Mahakalkar |
| 5. | Afreen Kausar | Luminescence properties Dy ³⁺ and Eu ³⁺ dopped KCl Phosphor | Dr. Mrs. N. S. Dhoble |
| 6. | Shumaila Anjum | Luminescence properties Eu dopped NaCl Phosphor | Dr. Mrs. N. S. Dhoble |
| 7. | Snehal Gadekar | Luminescence properties of Eu ³⁺ dopped NaCl Phosphor | Dr. Mrs. N. S. Dhoble |
| 8. | Ruchika S. Chafle | Luminescence properties of Dy dopped NaCl Phosphor | Dr. Mrs. N. S. Dhoble |
| 9. | Pratiksha S. Ganvir | Luminescence properties of Eu ³⁺ dopped KBr Phosphor | Dr. Mrs. N. S. Dhoble |
| 10. | Titiksha S. Moon | A Study of Luminescence properties of Dy ³⁺ dopped KBr Phosphor | Dr. Mrs. N. S. Dhoble |
| 11. | Priya B. Konge | Studies of Cleansing power of various Detergent powders available in market | Dr. Mrs. M. P. Patil |




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|-----|---------------------|--|-------------------------|
| 12. | Payal D. Padole | Quantitative analysis of natural and commercial juice including citric acid %, vitamin C content, TSS, Sugar acid ratio, pH value and minerals | Dr. Mrs. M. P. Patil |
| 13. | Pratiksha A. Kamble | Adsorption of Cu(II) on activated Charcoal prepared from waste material | Dr. Mrs. M. P. Patil |
| 14. | Priyanka D. Bhoyar | Comparative studies of cleansing power of various liquid soaps available in market | Dr. Mrs. M. P. Patil |
| 15. | Anjali K. Borkar | Co-crystal Synthesis structural Analysis of Aspirin and 3- Nitrobenzoic acid | Dr. Mrs. P. P. Chahande |
| 16. | Arti S. Ahirwar | Co-crystal Preparation, structural Analysis of Aspirin and Phthalic acid | Dr. Mrs. P. P. Chahande |
| 17. | Bharti K. Bhoyar | To Study the Physico chemical parameters of Honey from Mandhal Regions | Dr. Mrs. P. P. Chahande |
| 18. | Alaska N. Nagre | Co-crystal Synthesis structural Analysis of Paracetamol and 3- Nitrobenzoic acid | Dr. Mrs. P. P. Chahande |
| 19. | Ashwini A. Dange | To Study the Physico chemical parameters of Honey | Dr. Mrs. P. P. Chahande |
| 20. | Divya G. Meher | Synthesis and Photoluminescence Characterization of $\text{Na}_2\text{Sr}(\text{PO}_4)\text{F} : \text{Sm}$ Phosphors co-doped with (SO_4) , (WO_4) and (VO_4) ions | Dr. Mrs. A. M. Duragkar |
| 21. | Nidhi V. Bante | Synthesis and Photoluminescence Characterization of Dy, Sm and Eu activated $\text{Sr}_2(\text{PO}_4)\text{F}$ Phosphors | Dr. Mrs. A. M. Duragkar |
| 22. | Gunjan K. Dhabekar | Synthesis and Photoluminescence study of ZnAlO_4 doped with Eu^{3+} and Sm^{3+} Phosphors | Dr. Mrs. A. M. Duragkar |
| 23. | Megha S. Borkar | Synthesis and Photoluminescence Characterization of Eu activated $\text{Na}_2\text{Sr}(\text{PO}_4)\text{F}$ Phosphors co-doped with (SO_4) and (VO_4) ions | Dr. Mrs. A. M. Duragkar |
| 24. | Mrunali g. Thete | Synthesis and Photoluminescence Characterization of $\text{Na}_2\text{Sr}(\text{PO}_4)\text{F} : \text{Dy}$ Phosphors co-doped with (SO_4) , (WO_4) | Dr. Mrs. A. M. Duragkar |

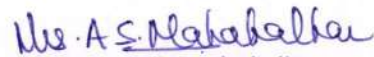


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| | | and (VO ₄) ions | |
| 25. | Rupali Watkar | A Study of Molecular Docking and Virtual Screening to find Novel Protein for 2-Deoxy-D-Glucose | Dr. Mrs. P. P. Morey |
| 26. | Rohini D. Vaidya | Effect of Activated carbon on Dyes | Dr. Mrs. P. P. Morey |
| 27. | Vishakha B. Ashtankar | Determination of various adulterant in different Tea samples | Dr. Mrs. P. P. Morey |
| 28. | Priya A. Dhobale | A Study of Molecular Docking and Virtual Screening to find Novel Protein for Molnupiravir Drug | Dr. Mrs. P. P. Morey |
| 29. | Shubhangi A. Kamane | Co-crystal Preparation and Analysis of Benzocaine based derivative | Dr. Mrs. P. P. Morey |




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 Dr. Mrs. A. S. Mahakalkar
 HOD, Dep of Chemistry
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**Documents of projects of
M.Sc.-II (Semester – IV)**

Zoology

Session 2021-22

SEVADAL MAHILA MAHAVIDYALAYA, NAGPUR
Place for Higher Learning & Research (Research Academy)
Department of Zoology

Report on
Projects / Dissertations allotted to M.Sc. II, Semester –IV
Students of Subject Zoology during the academic Session from
2016-17 to 2021-22

As per the syllabus of M.Sc. II, Semester-IV Zoology of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, the students enrolled for P.G Zoology course have to complete their Project/ Dissertation work under the supervision of faculty members for the partial fulfilment of the degree.

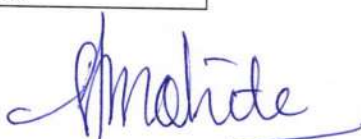
During the academic session from 2016-17 to 2021-22, P.G. Zoology semester IV students here allotted project on various topics such as, **Biodiversity of Birds, Butterflies & fishes; Histopathological effect of various pesticides on the vital organs of fish; effect of chemostorilant hexamethylphosphoramide on the gonads of insects; evaluation of physico-chemical parameters and water quality index from various water bodies and rivers; Review of literature on various topics, etc.**

List of students along with the title of respective project topic and name of the supervisors for the above mentioned academic sessions are enclosed herewith.

| S.No. | Academic Session | No. of Students Enrolled for Semester -IV |
|-------|------------------|---|
| 1. | 2016-17 | 14 |
| 2. | 2017-18 | 18 |
| 3. | 2018-19 | 26 |
| 4. | 2019-20 | 19 |
| 5. | 2020-21 | 26 |
| 6. | 2021-22 | 33 |




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(Dr. Anil S. Mohite)
In-Charge,
P.G. Department of Zoology
Sevadal Mahila Mahavidyalaya,
Nagpur

SEVADAL MAHILA MAHAVIDYALAYA, NAGPUR


P.G. Department of Zoology

M.Sc . Projects - Session 2021-22

List of Students.

| S.No | Name of Students | Topic Name | Name of Guide |
|------|------------------------------|--|---|
| 1. | Twinkle Jagdish Arora | Evaluation of Water Quality Index of Gorewada Lake and Aqua Filter with three Different Zone of Nagpur City for Pure and Pristine Water, Maharashtra India | Miss. Aasiya Syed Nasir & Dr. A.V. Dorlikar |
| 2. | Divya Bharatkishor Yadav | Evaluation of Water Quality Index of Gorewada Lake and Aqua Filter with three Different Zone of Nagpur City for Pure and Pristine Water, Maharashtra India | Miss. Aasiya Syed Nasir & Dr. A.V. Dorlikar |
| 3. | Snehal Suresh Khandare | Evaluation of Water Quality Index of Gorewada Lake and Aqua Filter with three Different Zone of Nagpur City for Pure and Pristine Water, Maharashtra India | Miss. Aasiya Syed Nasir & Dr. A.V. Dorlikar |
| 4. | Arzu Sheshrao Gabhane | Studies on β - Diversity Indices and Composition of Zooplanktons at Ambazari Lake, Nagpur (Maharashtra) | Dr. A.V Dorlikar |
| 5. | Simran Fatma I. Ahmed Ansari | Studies on β - Diversity Indices and Composition of Zooplanktons at Ambazari Lake, Nagpur (Maharashtra) | Dr. A.V Dorlikar |
| 6. | Kalyani Manohar Thakre | Studies on β - Diversity Indices and Composition of Zooplanktons at Ambazari Lake, Nagpur (Maharashtra) | Dr. A.V Dorlikar |
| 7. | Nasrin Munaf Sheikh | Studies on Qualitative Analysis of Zooplanktons at Rakhi Lake, Ramtek (Maharashtra) | Dr. A.V Dorlikar & Prof . P.N. Charde. |
| 8. | Sonu Gopal Kodwate | Studies on Qualitative Analysis of Zooplanktons at Rakhi Lake, Ramtek (Maharashtra) | Dr. A.V Dorlikar & Prof . P.N. Charde. |
| 9. | Shweta Arun Damahe | Studies on Qualitative Analysis of Zooplanktons at Rakhi Lake, Ramtek (Maharashtra) | Dr. A.V Dorlikar & Prof . P.N. Charde. |
| 10. | Kajal Rajesh Barvekar | Association of Age, Sex and Co-Morbidities with the Infection and Survival of COVID-19 Patients During First Wave in Tumsar, Bhandara District: Data from 1004 Patients from Health Care Centre, Tumsar. | Dr. (Mrs.) S.W. Charpe& Dr. A.S. Mohite |



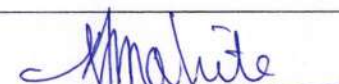

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| 11. | Kalyani R. Wadibhasme | Association of Age, Sex and Co-Morbidities with the Infection and Survival of COVID-19 Patients During First Wave in Tumsar, Bhandara District: Data from 1004 Patients from Health Care Centre, Tumsar. | Dr. (Mrs.) S.W. Charpe & Dr. A.S. Mohite |
| 12. | Kajal Fulchand Patle | Association of Age, Sex and Co-Morbidities with the Infection and Survival of COVID-19 Patients During First Wave in Tumsar, Bhandara District: Data from 1004 Patients from Health Care Centre, Tumsar. | Dr. (Mrs.) S.W. Charpe & Dr. A.S. Mohite |
| 13. | Ruchita Markand Shinde | COVID-19 Second Wave Zone 3 and Zone 5 of Nagpur City, Maharashtra: A Retrospective Survey for Demographic and Clinical Characterization | Dr. (Mrs.) S.W. Charpe & Dr. A.S. Mohite |
| 14. | Kirti Suresh Kadu | COVID-19 Second Wave Zone 3 and Zone 5 of Nagpur City, Maharashtra: A Retrospective Survey for Demographic and Clinical Characterization | Dr. (Mrs.) S.W. Charpe & Dr. A.S. Mohite |
| 15. | Pooja Shobharamji Mehune | COVID-19 Second Wave Zone 3 and Zone 5 of Nagpur City, Maharashtra: A Retrospective Survey for Demographic and Clinical Characterization | Dr. (Mrs.) S.W. Charpe & Dr. A.S. Mohite |
| 16. | Vanshika Wamanrao Chandekar | Fish Fauna of Local Markets in Nagpur City, Maharashtra | Miss. S.S. Marbate & Dr. A.V. Dorlikar |
| 17. | Damini Prabhakar Bhagat | Fish Fauna of Local Markets in Nagpur City, Maharashtra | Miss. S.S. Marbate & Dr. A.V. Dorlikar |
| 18. | Chaitali Vishwanath Yelne | Fish Fauna of Local Markets in Nagpur City, Maharashtra | Miss. S.S. Marbate & Dr. A.V. Dorlikar |
| 19. | Shriya Rajendra Gajbhiye | A Review of Growth Regulating Effects of Natural Pesticide, Azadirachtin from Neem Tree (Azadirachta indica A. Juss) in Insects | Dr. A. S. Mohite |
| 20. | Veena Techchand Tembhare | A Review of Growth Regulating Effects of Natural Pesticide, Azadirachtin from Neem Tree (Azadirachta indica A. Juss) in Insects | Dr. A. S. Mohite |
| 21. | Roshani Naresh Bhure | A Review of Growth Regulating Effects of Natural Pesticide, Azadirachtin from Neem Tree (Azadirachta indica A. Juss) in Insects | Dr. A. S. Mohite |
| 22. | Chetna Rajhans Gajbhe | A Review of Biomedical Waste and Management Maharashtra, India. | Miss. P. A. Hadge & Dr. A.V. Dorlikar |




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| 23. | Kavita Vitthaleao Sontakke | A Review of Biomedical Waste and Management Maharashtra, India. | Miss. P. A. Hadge & Dr. A.V. Dorlikar |
| 24. | Nomeshwari D. Awachat | A Review of Biomedical Waste and Management Maharashtra, India. | Miss. P. A. Hadge & Dr. A.V. Dorlikar |
| 25. | Punam Ramkrushna Bhingare | A Review of Blood Components, Their Preparation and Storage Strategies to Improve Patient Safety | Miss. S.S. Marbate & Dr. A. S. Mohite |
| 26. | Kirti Sunil Hande | A Review of Blood Components, Their Preparation and Storage Strategies to Improve Patient Safety | Miss. S.S. Marbate & Dr. A. S. Mohite |
| 27. | Pratiksha Vinod Hadke | A Review of Blood Components, Their Preparation and Storage Strategies to Improve Patient Safety | Miss. S.S. Marbate & Dr. A. S. Mohite |
| 28. | Varsha Arun Chakole | A Case Study on the Analysis of the Physicochemical Parameters of Raw and Treated Water of Sonagon Sewage Treatment Plant in Nagpur City, Maharashtra (India) | Dr. A.S. Mohite & Mrs. Pinkey L. Kanojiya |
| 29. | Kalyani Sadaram Gahane | A Case Study on the Analysis of the Physicochemical Parameters of Raw and Treated Water of Sonagon Sewage Treatment Plant in Nagpur City, Maharashtra (India) | Dr. A.S. Mohite & Mrs. Pinkey L. Kanojiya |
| 30. | Pranali Bharat Gedam | A Case Study on the Analysis of the Physicochemical Parameters of Raw and Treated Water of Sonagon Sewage Treatment Plant in Nagpur City, Maharashtra (India) | Dr. A.S. Mohite & Mrs. Pinkey L. Kanojiya |
| 31. | Shreya Sanjay Jaysingpure | Avifaunal Diversity and their Status in and Around Ambazari Lake, Nagpur, Central India | Dr. (Mrs.) J.S. Dahegaonkar |
| 32. | Akshaya Ghansham Ramteke | Avifaunal Diversity and their Status in and Around Ambazari Lake, Nagpur, Central India | Dr. (Mrs.) J.S. Dahegaonkar |
| 33. | Kshitija Ravindranath Lichode | Avifaunal Diversity and their Status in and Around Ambazari Lake, Nagpur, Central India | Dr. (Mrs.) J.S. Dahegaonkar |


(Dr. A. S. Mohite)

In-Charge

PG Department of Zoology
Sevadal Mahila Mahavidyalaya, Nagpur




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SEVADAL MAHILA MAHAVIDYALAYA, NAGPUR

Place for Higher Learning and Research (Research Academy)

Department of Environmental Science

Report on Projects/Dissertation allotted to M.Sc.II, Semester-IV Students of Subject Environmental Science during the academic Session from 2016-17 to 2021-22

As per the syllabus of M.Sc. II, Semester-IV (Environmental Science) of Rashtrasant Tukadoji Maharaj Nagpur University Nagpur, the students enrolled for PG Environmental Science course have to complete their Project/Dissertation work under the supervision of faculty members for the partial fulfillment of the degree.

During the academic session from 2016-17 to 2021-22, P.G Environmental Science semester-IV students are allotted project on various topics such as, **Effect of industrial waste on plants; Proximate analysis of solid waste; Biogas production through cow dung; Physico-chemical characteristics of water and wastewater sample; Impact of industrial waste on soil; Analysis of contaminated soil; Preparation of vermicast; Removal of contaminants from water and wastewater using natural adsorbents; Preparation of bio-plastic; Impacts of noise pollution; Heavy metals analysis in fly-ash; Review of literature on various topics, etc.**

List of students along with the title of respective project topic and name of the supervisor for the above mentioned academic sessions are enclosed herewith.

| S.No. | Academic session | No. of students enrolled for Semester-IV |
|-------|------------------|--|
| 1. | 2016-17 | 11 |
| 2. | 2017-18 | 27 |
| 3. | 2018-19 | 23 |
| 4. | 2019-20 | 12 |
| 5. | 2020-21 | 21 |
| 6. | 2021-22 | 26 |



(Dr.S.L.Pal)

In-Charge

P.G.Department of Env.Science

Sevadal Mahila Mv, Nagpur

In-Charge

PGTD, Environmental Science

Sevadal Mahila Mahavidyalaya, Nagpur



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Sakkardara Square, Umrer Road Nagpur

Post Graduate Department of Environmental Science

List of the Students for Dissertation

MSc II Environmental Science

Session: 2021-22

| Sr No. | Name of the Student | Topic Name | Name of the Guide | Name of the Co-Guide |
|--------|---------------------|--|--------------------------|----------------------|
| 1. | Abhilasha Zanzad | Vermicompost preparation from using different types of organic waste. | Dr. B.S.Tapase | |
| 2. | Achal Bhisekar | Evaluation of the Heavy metals contamination in groundwater of Bhugaon Industry. | Dr. B.S.Tapase | |
| 3. | Aparna Khandait | - | Mrs.P.V. Barde | Dr. P.N. Charde |
| 4. | Apeksha Gondane | Physico-chemical analysis of Ambora river in water. | Mrs.P.V. Barde | Dr. P.N. Charde |
| 5. | Apurva Shende | Study of heavy metals in groundwater around Western Coalfields Limited (WCL), Umred | Mrs.P.V. Barde | Dr. P.N. Charde |
| 6. | Ashvini Narade | Comparative analysis of RO treated water and well water | Dr S. L Pal | |
| 7. | Dinisha Uikey | Effectiveness of neem seed extract as a Bio Insecticide against Mustard Aphid. | Mrs.P.V. Barde | Dr S. L Pal |
| 8. | Hemlata Mehar | Experimental study on aeration performance and bubble characteristics of inverted umbrella aerator on lake water and wastewater. | Dr. B.S.Tapase | |
| 9. | Madhuri Mahore | Estimation of bio-absorption of heavy metal by the roadside plantation from heavy traffic area. | Mrs A.A. Chinchmalatpure | Dr. P.N. Charde |
| 10. | Minakshi Nannaware | Physico-Chemical characteristics of Flyash & | Mrs A.A. Chinchmalatpure | Dr. P.N. Charde |




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| | | Cowdung and its application in eco-friendly products. | | |
| 11 | Mrunal Mathurkar | Comparative study of organic soil, inorganic soil and barren soil. | Mrs.P.V. Barde | Dr S. L Pal |
| 12 | Neha Chaudhari | Assessment of soil quality with respect to Physico-Chemical parameters and some heavy metals in surroundings of Thermal Power Station, Khaperkheda, Koradi, Maharashtra, India. | Mrs A.A. Chinchmalatpure | Dr S. L Pal |
| 13 | Neha Ghughuskar | Physical- Chemical analysis of Ambora River | Dr S. L Pal | |
| 14 | Payal Borkar | Performance evaluation of activated sludge process in the treatment of Nag river waste water | Dr S. L Pal | |
| 15 | Pooja Bhute | An overview of application of Biosurfactance in removal of heavy metal from environmental samples. | Dr. K.V. Dubey | |
| 16 | Prachi Mane | | Dr S. L Pal | |
| 17 | Pradnya Petkar | | Dr S. L Pal | |
| 18 | Puja Pande | - | Dr S. L Pal | - |
| 19 | Roshni Kakde | Biodegradation of commercial synthetic dyes present in textiles effluent by microorganism | Dr. Mrs. S.R. Nimbarte | |
| 20 | Ruchira Adkine | Characteristics and effects of aquarium waste water on plant growth. | Mrs.P.V. Barde | |
| 21 | Sharayu Malamkar | Comparative study of banana peel(Musa Paradisiaca) and alum(aluminium sulphate) | Dr S. L Pal | |




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| | | for coagulant dose in spiked water sample. | | |
| 22 | Shital Shende | Preparation and use of biopesticides by neem, cattle urine and some natural products. | Dr S. L Pal | |
| 23 | Shraddha Wankhede | An overview of effects of industrial effluent on plants and seed germination | Dr. V. S. Dongre | |
| 24 | Sneha Khune | Comparative study between agricultural soil and soil contaminated with discharge of polymer waste. | Dr. S.L. Pal | |
| 25 | Sonal Satpaise | Disaster management : Relief, Rehabilitation and Development. | Dr. V. S. Dongre | |
| 26 | Vishakha Yende | - | Dr S. L Pal | |



Dr. S.L. Pal
In-charge

PGDT Environmental Science

In-Charge
PGTD, Environmental Science
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Dr. P.N. Charde
principal

Sevadal Mahila Mahavidyalaya




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