

Criteria: 3

Research, Innovations and Extension

Grant sanction order & departments detail of funds allocated

Grant Sanction Letter from RUSA for Infrastructure Development & Lab Upgradation

मध्य प्रदेश शासन उच्च शिक्षा विभाग मंत्रालय भोपाल

कमांक 660/82/रूसा/सी.सी./2019/38

भोपाल, दिनांक 4 /10/2019

प्रति.

परियोजना संचालक. राष्ट्रीय उच्चतर शिक्षा अभियान, उच्च शिक्षा विभाग, सतपुड़ा भवन, पंचम तल, भोपाल म०प्र०।

विषय:-

कम्पोनेंट-09, महाविद्यालयों में अधोसरचना विकास करने के संबंध में ।

संदर्भ:-

मानव संसाधन विकास मंत्रालय का पत्र क्रमांक F.No. 24-48/2014-U Policy (MPIGC-Gen)

दिनांक 13.06.2018।

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उपरोक्त विषयांतर्गत संदर्भित पत्र के अनुक्रम में मानव संसाधन विकास मंत्रालय, भारत सरकार द्वारा रूसा चरण-2, कम्पोनेंट-9, महाविद्यालय में अधोसंरचना विकास एवं उन्नयन कार्य करने हेतू राष्ट्रीय उच्चतर शिक्षा अभियान योजना से प्राप्त अनुदान एवं मांग संख्या-44 योजना क्रमांक 7600 (राष्ट्रीय उच्चतर शिक्षा अभियान योजना) सेगमेंट कोड 0701 (सामान्य), 0702(अनुसूचित जनजाति उप योजना), 0703 (अनुसूचित जनजाति)के अंतर्गत नीचे दर्शायी गई तालिका में उनके द्वारा प्रस्तुत प्रस्ताव अनुसार प्रशासकीय विभाग के अनुमोदन के परिप्रेक्ष्य में कॉलम 6 के अनुरूप निमार्ण एवं उपकरण आदि क्रय करने की प्रशासकीय स्वीकृति प्रदान की जाती है।

S. no	Name of College/Place	New work &Amount (Rs.)	Renovation &Up gradation Amount (Rs.)	Equipment Amount(Rs.)	Total Amount of Administrat ive Sanction (Rs.Lacs)	
1	2	3	4	5	6	
1.	Govt. Narmada College, Hoshangabad	e, at F.F. Commerce chemistry &Industrial UPS, Computer centre				
2.	Govt. Shyama Prasad Mukherji Vigyan College, Bhopal (Earlier Known as Govt. Benazeer Science & Commerce P.G. College, Bhopal)	Multipurpose Hall with internal electrification Area=680.00 sq.m. Amount= 100.00 lacs	General renovation of toilets, common areas & confidential room Area= 1056 .00sq.m. Amount= 60.00 lacs Physics lab, Zoology lab, Biotech lab, Botany lab.	Material for Botany lab, Zoology lab, Chemistry lab, Physics lab, Maths department, Sports department, Commerce department . Amount=40.00 lacs	200.00	

निरन्तर....2...

IQAC Co-Ordinator S.L.P. Govt. P.G. College Morar, Gwalior



9.	Govt. Holkar Science College, Indore		n work of Library hall with / External Electrification. cs.	Lab Equipments. Amount = 85.00 lacs.	200.00
10.	Govt. Shyamlal Pandviya College, Morar, Gwallor	New block having 06 classrooms at G.F.+F.F. & toilets with complete Electrification work. Area = 550 sq.m Amount = 100.00 lacs.	Up Gradation of Parking shed and Renovation of toilets & Classrooms. Area = 250 sq.m Amount = 50.00 lacs.	Computers, Geography department, Zoology, Botany, Chemistry, Physics lab equipments. Furniture, sports & library material. Amount = 50.00 lacs.	200.00
11	Govt. Motilal Vigyan College, Bhopal	Computer Centre Building with Toilets and internal/External Electrification Area = 604 sq.m Amount = 100.00 lacs.	Up gradation of Auditorium. Area = 1878 sq.m Amount = 70.00 lacs.	Computers, Sports, library & other Equipments. Amount = 30.00 lacs.	200.00

स्वीकृति की शर्ते निम्नानुसार है :-

- मानव संसाधन विकास मंत्रालय, रूसा, भारत सरकार के दिशा निर्देश एवं मापदण्ड अनुसार राशि व्यय की जाना सुनिश्चित करें।
- व्यय करते समय मध्यप्रदेश शासन द्वारा निर्धारित, जारी निर्देशों एवं नियमों का दृढ़ता से पालन, मध्यप्रदेश वित्तीय अधिकारों की पुस्तिका में उल्लेखित अधिकारों के तहत् एवं भण्डार क्रय एवं सेवा उपार्जन नियम 2015 का पालन सुनिश्चित किया जावे।
- क्षेत्रीय अपर संचालक की अध्यक्षता में रूसा से संबंधित क्य हेतु समिति गठित कर तदनुसार, मध्यप्रदेश शासन के नियम सुनिश्चित किये जाये। इस समिति के सदस्य सचिव संबंधित महाविद्यालय के प्राचार्य रहेंगें।
- 4. व्यय राशि एवं क्रय सामग्री का विधिवत अभिलेख संधारण किया जावे। सामग्री आदि का गुणवत्ता परीक्षण सुनिश्चित किया जावे तथा उपयोग की गई राशि का पूर्ण विवरण सहित उपयोगिता प्रमाण पत्र परियोजना संचालक, रूसा को शीघ्र अतिशीघ्र भेजा जाना सुनिश्चित करें।
- 5. किसी भी प्रकार के अनियमित व्यय/भुगतान की जिम्मेदारी संबंधित प्राचार्य की होगी।

(डॉ. जयश्री मिश्रा) अपर मचिव

म.प्र.शासन, उच्च शिक्षा विभाग

निरन्तर...4....

Dr. Sadhna Shrivastava IQAC Co-Ordinator S.L.P. Govt. P.G. College Morar, Gwalior



Grant Recevied from MPHEQIP Under World Bank Project

कार्यालयः प्राचार्य, शासकीय श्यामलाल पाण्डवीय महाविद्यालय,मुरार,ग्वालियर

राष्टीय मूल्यांकन एवं प्रत्यायन परिषद् (NAAC)द्वारा प्रत्यायित " बी + " ग्रेष्ठ , वर्ष 2017

फ़ोन: 0751-2368320

E-mail hegcslpmorgwa@mp.gov.in slpmorar@gmail.com

ग्वा., दिनांक: 05.09.2022

क्रमांक :994 /स्था /2022

प्रति, अपर निदेशक, MPHEQIP, विश्व वैंक परियोजना, उच्च शिक्षा विभाग, मध्य प्रदेश शासन, भोपाल

विषय: मध्य प्रदेश शिक्षा गुणवत्ता उन्नयन परियोजना (MPHEQIP) एवं क्वालिटी लर्निंग सेंटर (QLC) के अंतर्गत अकादमिक उत्कृष्टता गतिविधियों के आयोजन बाबत प्रस्तावित रूपरेखा 2022-23

सन्दर्भ: उपरोक्त विषय पर आपका पत्र क्रमांक 1903 / वि. बै.परि./2022 दिनांक 14.07.2022

उपरोक्त विषय और सन्दर्भ के मध्य प्रदेश शिक्षा गुणवत्ता उन्नयन परियोजना (MPHEQIP) एवं क्वालिटी लर्निंग सेंटर (QLC) के अंतर्गत अकादमिक उत्कृष्टता गतिविधियों के आयोजन बाबत चयनित 301, शासकीय श्यामलाल पाण्डवीय महाविद्यालय

,मुरार,ग्वालियर हेतु हेतु प्रस्तावित रूपरेखा 20/22-23 सूलग्न है।

सदस्य,QLC/MPHEQIP

प्रभारी प्राध्यापक , QLC/MPHEQIP

(डॉ.आर.के.एस.सेंगर)

प्राचार्य प्राचायं

रस.एख.पी. शास. स्नातकोत्तर महाविद्याल>

सरार (ग्वावियर) म.पू.

301, Govt. Shyamlal Pandaviya College, Morar, Gwalior

Date: 05.09.2022

List of various activities to be taken up by departments (Based on the proposals received and corrected rationally in page 21.1 Peak Project) rationally in response to letter no 1903 dated 14.07.2022, issued by SPD, World Bank Project)

SI	Departmen t	Resource Person	Activities	Amount Demanded	Amount Recommende	Proposed Months
1	Zoology	Dr.Rachna Joshi	02 Lectures	7000	7000	Oct.22- Jan23
2	Chemistry	Dr.Sadhna	l day workshop on	10000	7000	Oct22-
35 1740 1341 1341		Shrivastava	Computational Environmental Chemistry	10000	7000	Dec22
3	Chemistry	Dr.Sadhna Shrivastava	Lectures	8000	8000	Oct22- Dec22
4	Chemistry	Dr.Sadhna Shrivastava	Industrial Visit to CIFRJ.U.&DRDO	3000	3000	Oct22- Dec22
5	Sports	Dr.L.S.Dhindsa	Lecture on Khelo India	10000	9000	Sept 22
6	S.V.Career Guidance Cell	Dr.A.K.Tripathi	28 days training on Office Automation	38000	30000 (for 25days)	Oct22- Dec22
	S.V.Career Guidance Cell	Dr.A.K.Tripathi	28 days training on Competitive Exams	35000	30000 (for 25days)	Oct22- Dec22
	S.V.Career Guidance Cell	Dr.A.K.Tripathi	08 days training on GD/Interview	10000	Not approved (Can be a part of above training)	Oct22- Dec22
)	History	Dr.Ghanshyam Uchariya	02 Lectures	5000	5000	Nov 22

रस.एस.पी. शास. स्नासकोत्तर महाविदास६ सुरार (ग्वालियर) म.ध.

Page 2 of 5

SI	Departme nt	Resource Person	Activities	Amount Demanded	Amount Recommend	Proposed Months
10	Library	Dr.K.K.Shukla	Ref.Books,Online Journals,Journals, Question Banks etc	40000	24000	
11	Botany	Dr.B.B.Gupta	02Lectures	6000	6000	Sep22- Dec22
12	Botany	Dr.B.B.Gupta	Nursery/KVK Visit	3000	3000	Sep22- Dec22
13	Geograph y	Dr.A.K.Singh	3 Lectures on 1. bhugol nutan privittiyan 2. prithvi aur manav, 3. bhugol mein remote sensing aur computer upyog	15000	15000	Dec22- Feb 23
14	Geograph y	Dr.A.K.Singh	Educational visit of I day	20000	15000	Jan 23
15	Women Empower ment	Dr.Asha Kumari	judo karate training of 15 days for girls	18000	18000	Sep22- Oct22
16	Women Empower ment	Dr.Asha Kumari	02Lectures on women empowerment	5000	5000	Nov22- Dec22
17	IQAC	Dr.Sadhna Shrivastava	3 Lectures on criteria 1 to 7	15000	15000	Oct22- Dec22
18	NCC Army Wing	Dr.Devendra Singh Gurjar	3 Expert Lectures on 1.sena mein career ki sambhavanayein; 2.samaj parivartan mein yuvaon ki bhumika ;3. Bharat ka gauravshali atit/NEP2020	15000	15000	Nov22- Feb23

रप.एज.पी. द्यास. स्नासकोत्तर महाविधावक पुरार (ग्वालियर) म.घ. My

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Page 3 of 5

Merpade

SI	Departme	Resou				
Sec.	nt	Resource Person	Activities	Amount	Amount Recommend	Proposed Months
19	Chemistry	1.Dr.Mujeeb Khan; 2.Dr.Jogender Singh; 3.Dr.Khushwant Singh	Micro Research Project on " Heterocyclic Pyrimidine Derivatives:Facile Synthesis Characterisations, DFT Calculations and their Biological Studies"	Demanded Books and Journals - 5000; Equipmen ts/Chemic als-40000; Travel- 5000 Contingen cy-6000 Total 56000	ed Books and Journals - 5000; Equipments/ Chemicals- 40000; Travel-5000 Contingenc y-5000 Total 55000	
20	English	Dr.Lata Pallav	Micro Research Project on "A study of Women Characters in Selected Plays of Harold Pinter:	Books and Journals - 8000; Contingen cy-8000 Total 16000	Books and Journals - 8000; Contingenc y-7000 Total 15000	
21	Geograph	Dr.Sagar Ghosh	Micro Research Project on " Geospatial Analysis of Urbanisation Expansion and its impact on Surface Water Bodies in Gwalior Area"	Books and Journals - 4000; Equipmen ts/Chemic als-3000; Travel- 4000 Contingen cy-5000 Total 16000	Books and Journals - 3000; Equipments/ Chemicals- 3000; Travel-4000 Contingenc y-5000 Total 15000	
			Total Amo		300000/=	

च्स.एज.पी. शास. स्नातकोत्तर महाविद्याल व सुरार (ग्वालियर) म.घ.

Page 4 of 5

N.B.: It is recommended by the Quality Learning Centre of Govt. Shyamlal Pandaviya College (Code 301) that the unspent balance, if any, at lat may beutilised by IQAC of this college for various useful activities under intimation to State ProjectDirectorate S.P.D.,Bhopal.

(Dr.Manisha Deshpande)

Member, QLC/ MPHEQIP Incharge Professor, QLC/ MPHEQIP

(Dr.R.K.S.Sengar)

Principal

प्राचायं

एस.एच.पी. शास. स्नातकोत्तर महाविद्याल-प्ररार (ग्वालियर) म.म.

SHYAM LAL PANDVIYA Govt. P. G. College Morar Gwalior (M.P.)

Equipment received under World Bank /Rusa Project

	Name of Department:		Chemistry				
	Equipment received under W Project:	orld bank/Rusa	1591900.00				
	Sessions:		from 2018	3-2023			
S.N.	Name of instrument	Date	Cost in Rs	Activity	Photographs		
-1	Vaccum Evaporator with Chiller	08-02-2022	799990.00	Research/Practical			
2	Colorimeter	08-02-2022	24640.00	Research/Practical			
3	Heating Mantle	03-10-2020	4130.00	Research/Practical			
4	Hot Plate	03-10-2020	9720.00	Research/Practical			
5	Magnetic stirrer	03-10-2020	29160.00	Research/Practical			
6	Table top weight scale	03-10-2020	2450.00	Research/Practical			
7	Centrifuge machine	03-10-2020	31000.00	Research/Practical			
8	Microwave Owen	10-10-2020	11476.00	Research/Practical			
9	Water double distillation	15-11-2020	54203.00	Research/Practical			
1	Single Channel Var. Pipette	15-02-2021	1701.00	Research/Practical			
1	Double beam UV visible spectrophotometer	21-06-2021	609400.00	Research/Practical			
1.	2 pH meter	21-06-2021	14030.00	Research/Practical			

Ur. (Smt.) Sadhna Shrivastava
Professor
Professor
Department of Chemistry

Note: Necessary documents and the photos of labs with students working or instrument must be necessary attached.

Morar Gwalio

Zoolegy

SHYAM LAL PANDVIYA Govt. P. G. College Morar Gwalior (M.P.)

Name of Dep	artment:		ZOOLOGY		
	eceived under Rusa Project:	w	ORLD BAN	PROJECT	
Sessions:	21.1	from 2	2018-2023 TOTAL	-RS.96, 4191	=
S.N.	Name of instrum	ent	Cost in Rs	Activity	Photographs
2.(RUSA)	Pathological Research Mice Hot Air Over	r	21,200/- (GST Included)	Study of various Stides. Microtomy Sterlization of glasswale. Drying.	-
3 (MORLD)	Water Distille Unit Single &	ation Btill	@ \$38191- (GST Included) dak-13/11/2020	Water Purification to make distil water for preparsing solutions	

Sign of Head Dr. Rachana Joshi

Note: Necessary documents and the photos of labs with students working on instrument must be necessary attached.

शासकीय एस.एल.पी. स्नातकोत्तर आतीव आलय सुरार व्यालियर (स.प्र.) Bo tawn text here

SHYAM LAL PANDVIYA Govt. P. G. College Morar Gwalior (M.P.)

Name of De	partment:	6	BOTANY]	
	World bank/Rusa Project: WORLD BANK & MPHERIP.						
Sessions:		from	2018-2023				
S.N. Date	Name of instrun	ent	Cost in Rs	Activity	Photographs	BILLI	
1.2.3.4.5.6.789	Water Distell lent Unilab Micros Binocelar Micros Pathological Res Microscepe Max. Min Therm Budrats Digital Therm Autoclave por Camera Lucio Microtype	cope scope scorch coneter cometer table	54203/- (unit-1) 43890/- (Total units-11) 24.999/ (unit-1) 21.400/- (unit-2) 711.86/(unit 02) 1688/(unit-20) 3728.82 (unit-02) 13500/- unit 02	Microscopic Studies For climate change in temp Ecological Studies For taking temp	591 2+ 21 - At 31: - Dr 31	3-24 6-3-24 6-3-24 6-3-24	
	Camera Lucida (F	rizm)	1610/- hent 02	Orawing frigues	6142 At 1	The second secon	
	Dissecting Mic Binocular Lesse Microscope		= 62,501-4mt-5 79001-4mt-5	Flower Dessection A Anatomical studie Anatomical Stu	6142 0+ 10 3107 0+ Sign of Head		

Note: Necessary documents and the photos of labs with students working on instrument must be necessary attached.

20/4/21

प्राचार्ट

शासकीय एस.एल.पी. स्नातकोतर वर्जी सुरार ग्वालियर (म.प्र.) Library

SHYAM LAL PANDVIYA Govt. P. G. College Morar Gwalior (M.P.)

Name of Do	epartment:	ti	brany Science	0				
Equipment received under World bank/Rusa Project:		L	world Bane			2 4 2 2 2		
	2022-23		2018-2023	12/	16	3	4	
S.N.	Name of instru	nent	Cost in Rs	Activity		Photograp	hs	
(1)	Computer 13 Pre OS-M-S office A Version - Antiu Key board and M	eadem un	03-246030	10 mg/m				
	(3-yeaworld)		y 2	_		- 5		
21	all in one Mille		01 - 3000			100 mg		
-31	Bor Code I wad	in.	01 - 19700					
	-			1				

Sign of Head (Kesharellistan Shundo,

Note: Necessary documents and the photos of labs with students working on instrument must be

necessary attached.

शासकीय एस.एल.पी. स्नातकोत्तर गुज़िशालय सुरार ग्वालियर (म.प्र.)

सतपुड़ा भवन, भोपाल

क्र 82 /वि.बै.परि./2023

भोपाल, दिनांक /6/01/2023

प्रति,

Grant Received from MPHEQIP for E-Library

प्राचार्य,

247 शासकीय महाविद्यालयः (संलग्न सूची अनुसार) |

विषय- विश्व बैंक वित्त पोषित परियोजना "मध्यप्रदेश उच्च शिक्षा गुणवत्ता उन्नयन परियोजना" अंतर्गत ई-लाइब्ररी में लगने वाले उपकरणों के क्रय की प्रशासकीय स्वीकृति के संबंध में | सन्दर्भ- कार्यकारी समिति की बैठक दिनांक 13.01.2023 के निर्णय के पालन में |

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विश्व बैंक द्वारा पोषित "मध्यप्रदेश उच्च शिक्षा गुणवत्ता उन्नयन परियोजना" अंतर्गत 247 महाविद्यालयों में ई-लाइब्ररी में लगने वाले विभिन्न आवश्यक उपकरणों (कम्प्युटर, प्रिंटर, बारकोड स्कैनर आदि) क्रय किया जाना है |

2 महाविद्यालयों द्वारा आई.डी.पी तथा विभाग द्वारा ई-लाइब्ररी हेतु आयोजित प्रशिक्षण में समय-समय पर की गई मांग के अनुक्रम में 247 महाविद्यालयों में लगने वाले विभिन्न आवश्यक उपकरणों (कम्प्युटर, प्रिंटर, बारकोड स्कैनर आदि) का क्रय करने हेतु एतद द्वारा निम्न विवरण एवं शर्तों के आधार पर प्रशासकीय स्वीकृति प्रदान की जाती है -

S. N	Equipment	Qty	Estimated Unit Rate	Estimated Cost Including 18 % GST	Total Value inleuding GST
1	Computer i3 with Preloaded OS, MS Office Academic Version, Antivirus, keyboard and Mouse (5-year warranty)	3	69500	82010	246030
2	All in one Multi-Function Printer	1	30000	35400	35400
. 3	Barcode reader with Barcode printer	1	.14700	17346	17346
	Total Including 18% (SST Pe	r College		298776
18 TH 18	Total Including 18% CS				73797672

शर्ते -

- क्रयं की जाने वाली सामग्री गुणवत्तापूर्ण एवं उच्च स्तरीय हो, जिसकी जवाबदेही संबंधित प्राचार्य की होगी |
- राज्य स्तर पर उपकरणों का स्पेसिफिकेशन तथा अनुमानित दारों का निर्धारण किया गया है,
 जिसका उपयोग महाविद्यालय कर सकेंगे |
- 3. उक्त स्पेसिफिकेशन का उपयोग महाविद्यालय द्वारा किया जाता है तो स्पेसिफिकेशन के अनुमोदन हेतु राज्य स्तर पर प्रेषित किये जाने की आवश्यकता नहीं होगी तथा महाविद्यालय GeM पोर्टल पर निविदा जारी कर सकेगा |
- महाविद्यालय अपनी आवश्यकता अनुसार स्पेसिफिकेशन में कोई परिवर्तन करना चाहें तो कर सकेगा, जिसकी अनुमति राज्य परियोजना संचालनालय से प्राप्त करना आवश्यक होगा |



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(डॉ. आर. के. एस. सेंगर)

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(Dr.R.K.S Sengar)

Principal

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PRINCIPAL
GOVT S.L.P. P.G. COLLEGE
MORAR, GWALIOR

Micro Research Project Report

Geospatial Analysis of Urbanisation and Its Impact on Water Resource in the Gwalior District

Submitted

to

The Quality Learning Centre (MPHEQIP) Shyamlal Pandviya Govt. P.G. College Morar, Gwalior

2023

Sagar Ghosh

Project Coordinator

Assistant professor

Department of Geography

Shyamlal Pandviya Govt. P.G. College

Dr. A.K. Singh

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Head and Associate Professor

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S.L.P. Govt. P.G. College Morar
Gwalior- 474006 (M.P.)

Dr. R.K.S. Sengel य शा.स्यानलात पाण्डवीय स्नातवः Principalatatatat कृतक्षण्यातिः

Shyamlal Pandviya Govt. P.G. College

Dr. A.K. Tripathi

QLC (MPHEQIP) Coordinator & Professor

Shyamlal Pandviya Govt. P.G. College

SUMMARY

For the growth and development of humans, water is a very important resource. According to the UN World Water Development Report 2019, almost one-third of the world's population lacks access to clean drinking water, and the gap between supply and demand is constantly widening, which is a very serious problem in developing countries. Safe and preserved surface water resources are directly correlated with the accessibility of clean and safe water. By replenishing groundwater, providing the opportunity for rainfall harvesting, holding enormous volumes of water, reducing urban flooding, treating waste water using artificial wetlands, and other methods, surface water resources play a significant part in closing the supply-demand imbalance. However, quick, uncontrolled, and unplanned land development degrades these resources. A balance between water supply and demand in urban areas must therefore be established, and surface water resources must be protected through land use planning and management. Protecting surface water resources, ensuring their quantity and quality, lowering pollution levels, and positioning the resources for sustainability can all be accomplished through the examination of the effects of land use changes.

The spatial distribution of natural resources in large-scale areas shows the influence of human activities on land usage, and also has an impact on surface water resources.

The conversion of water bodies to high rise building development, disposal of chemicals, debris, and non-point pollutants by nearby land uses has been shown in numerous studies to have a direct impact on the quantity and quality of water. The investigation of land use changes, trends, status, direction, and their impacts on surface water resources have been the focus of some studies.

However, these studies do not include extensive land use change research over extended stretches of time, particularly for places with high water stress in emerging nations like India and Gwalior-Chambal Region.

Analysing land use changes, trends, and status in India can help to maintain urban surface water resources.

The study shows the spatial dynamics of urbanisation, surface and ground water level status through geospatial mapping and statistical evidence. The objective of this study is to analyse the impact of land use land cover change on water resource of a rapidly growing water stressed semi dry urban region. The research analyses data from Census report, local governments reports and spatial data from remotely sensed images. The research finds rapid transformation of open land to the built-up area, particularly in the North-West, North, Eastern parts of the district along the transportation network to Delhi. Rapid and uncontrolled growth of urban areas is the result of, firstly, the natural increase in population, and secondly, migration into urban areas from its surrounding villages. In total, migration significantly contributes to the urban growth of the district.

Economic expansion and its associated development of infrastructural amenities, which frequently forces uncontrolled urban sprawl, are major factors accelerating urbanisation. The capacity of cities to provide technological infrastructure and services like energy, education, health care, transportation, and sanitation is generally put under pressure by the fast growth of urban areas. Massive urban sprawl happens as a result of governments having less money to maintain infrastructure and provide essential services, which has an impact on the local urban ecosystem. Rapid urbanisation and low levels of technology in many developing nations are projected to have an impact on ecosystem services and increase pressure on urban communities to adapt to these changes. The study of LULC changes frequently to forecast the demand on urbanisation in the future in accordance with water security.

The district continues to experience water crisis such as water deficiency during the peak summer, groundwater degradation and water accessibility.

As summer comes to an end, the groundwater level worsens even further. This already water stressed regions' water balance would be further burdened by further population and built-up densification. The northern part of the district will account for the majority of the water demand in near future. Further increases in groundwater extraction will become inevitable if the land use planning, zoning and water use regulation execution is done not efficiently along with the increasing urban change. Due to increasing water extraction and less groundwater recharge, groundwater levels will decline faster. The loss of low-lying areas and wetlands, increased surface runoff, and flooding and waterlogging brought on by the intensification of built-up areas are some of the additional environmental externalities. The findings will help the policymakers to comprehend the water crisis and consider appropriate mitigation strategies.

Urban sprawling creates an unauthorised, haphazard high rise settlement development without any strong land use regulations, because it is located outside of the city boundary and which in turn results in an increasing ecological footprint which in turn increasing the alarming concern for water resource management. If we cannot manage the present situation through a proper land use regulation zoning, once a day will come, when this will be harmful on the basic livelihood of residents. The land resource governing body and the planning institutions should take an immediate action to formulate a proper land use plannung and regulations with an effective exesicuion of the regulations for water securty strategy for this unplanned land sue areas. The haphazard and unplanned growth should not be let loose on the market. They should also decide whether to fully urbanise these areas or retain rural characteristics.

Dr. Sagar Ghashi) 124 Professor of Glupvalbhy

मुरार (ग्वालियर) म.प.

एस.एख.पी. शास. स्नातकोत्तर महाविद्यासः

सरार (ग्वालियर) म.श.

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(Dr.R.K.S Sengar)
Principal
Mob:6265011940

PRINCIPAL GOVT S.L.P. P.G. COLLEGE MORAR, GWALIOR

Micro Research Project Report

STUDY OF WOMEN CHARACTERS IN SELECT PLAYS OF HAROLD

PINTER

A Project

Submitted to

Madhya Pradesh Higher Education Quality Improvement

Project (MPHEQIP)

SPD World Bank

By

Dr. Lata Pallav

Assistant Professor Department of English



Govt. Shyamlal Pandviya P.G. College Morar Gwalior M.P. (301)

DECLARATION

With deep gratitude, I take the opportunity to acknowledge to Madhya Pradesh Higher Education Quality Improvement Project (MPHEQIP) World bank project to sanction the amount for academic excellence to our college code 301. I declare that the following project is my own work for which I used only the mources and literature mentioned, and that this work has not been used in the mource of other university studies or in order to acquire the same or another type of project.

Dr. Lata Pallav

Assistant Professor

Department of English

TOPIC - "STUDY OF WOMEN CHARACTERS IN SELECT PLAYS OF HAROLD PINTER." ENGLISH MICRO RES . PROJECT

ABSTRACT

Its no gainsaying the fact that Harold Pinter (10th October, 1930) occupies an eminent place in the Dramatists of the New Age. He is the product of a post-war generation that has attempted to reject the evils of the twentieth century and present a new outlook on society. In the galaxy of the absurdist his name is highly placed by the competent critics of the New Age. The Theatre which was lying barren could come into existence because of these playwrights. Infact 1956 is a landmark in the Post War British Literature and the dramatists like John Osborne, Samuel Beckett, John Arden, Arnold Wesker and Harold Pinter treasured the domain of New Drama and made it to reach its heights. At the moments, the new dramatists were striving to explore themes and situations through naturalistic presentation of life permeating throughout western world. Harold Pinter dealt all the aspects of contemporary life with his utmost care and artistic excellence. His plays present a vast panoramic picture of emerging values of the Post-War British life. Through his dramatic distinction, he could be considered the soul representative, almost in all his plays, of the working class of the then British Society, struggling for its existence.

Life is a struggle for survival in Pinter's world. The quest of the characters is then for survival; what we have at the end of a play is a realignment of forces to ensure the possibility of survival. This work offers a feminist approach to the literary work of Harold Pinter by focussing on their female characters and trying to offer a psychoanalytic approach to them. The female figures are not only important to the dramas themselves but they are also crucial to understand the process by which patriarchy attempted to oppress women during the decades. In many cases women resulted such oppression and encouraged audiences to view their position in the society differently. It is here that Pinter's women move from a subservient to a dominant role; often they

lege, Morar **रस.एल.पी.** शास. स्नातकीतर महा पुरार (ग्वालियर) न.म

reveal a decisiveness and a ruthlessness which are not there in the early portrayals. They seem to play their roles with considerable aplomb - of mother, wife and whore. Often these roles are combined into one perplexing persona. As the characters gain more complexity the quest is not only for survival but for a realization of their selves, which for Pinter seems to mean the realization of their libidinous selves. A close study of Pinter's plays reveal three types of women- subservient, emergent and dominant. These terms do not have any political overtones. They are to be understood in terms of Pinter's microcosm, the world as he depicts it, a world in which inner realities take precedence over external details. The term "emergent" is used here in the sense of the unpredictable appearance of entirely new properties or traits at certain critical stages or levels in the course of action in a play. The Rose in *The Room*, and Meg in *The Birthday Party* are subservient; Flora in *A Slight Ache*, Stella in *The Collection* and Sarah in *The Lover* are emergent; and Ruth in *The Homecoming*, Anna and Kate in *Old times* and Emma in *Betrayal* dominants.

A study of the images of women in Pinter's plays are restricted by two factors: the difficulty in deciphering the motivations of the characters, and the stratagems they adopt which do not necessarily bring out their essential traits and predilections. However, it is possible to arrive at some tentative conclusions regarding these portrayals if we understand the nature of the dramatic conflict in Pinter's plays. The characters are in the grip of an extreme anxiety the nature of which they fail to comprehend. The grim question they face every moment of their life is how to cope with their deep sense of loneliness, inadequacy and fragmentation, and how to survive in a world that seems to threaten their very existence. In this struggle for survival especially physical, the men seem to dominate in the early plays; the women playing a subordinate role. In the later plays the concern is not merely for survival, but survival with a possibility of

self-realization, which from the point of view of these characters seems to be the realization of their libidinous selves.

To be alone, given the existential anxiety, is to be lonely. In spite of the realism of some of his plays, Pinter remains close to the Theatre of the Absurd. It is to his credit that through a fusion of the techniques of the avant-garde theatre and the cliches of the conventional theatre he has presented through his female characters the anxiety, the loneliness, and the vitality of the twentieth century women. In their struggle lies the possibility of their liberation; in their choices lie the limits of freedom. Pinter's irony seems to mediate between these two imperatives. In this ironic mediation lies that grey territory between illusive hope and abject despair that Pinter's women show the determination to guard against both internal and external threats.

Thus it is very clear that the coming ages will surely hold Pinterian concepts which he narrated to his readers through his writings. Undoubtedly, Pinterian place will remain immortal to those who love drama and put dramatic arts into practice. Many of Pinterian themes will lead on to the minds of thinkers, critics, writers of the age to come and they will surely enjoy Pinter's treatment of women characters which is nicely dealt in his plays.

Detailed Report is available with mpHEDIP call.

मरार (ग्वानियर) म.प्र.

Stol 22-2-23 Dr. Lata Pallar Asstt. Prof. English Deptt.



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20.07.2023

Utilisation Certificate

It is certified that an amount of Rs. 55000/= sanctioned by Quality Learning Centre (QLC) of this college under Academic Excellence 2022-23 sanctioned by World Bank Assisted Project MPHEQIP was utilised fully for the purpose for which it was sanctioned. Report has already been submitted to QLC.

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Micro Research Project Report

HETEROCYCLIC PYRAZINE AND PYRIMIDINE DERIVATIVES: FACILE SYNTHESIS, CHARACTERIZATIONS, AND THEIR DFT CALCULATION

AProject
Presented to
Madhya Pradesh Higher Education Quality Improvement Project (MPHEQIP) /
SPD World Bank

by

Dr. Muzeeb Khan Dr. Jogender Dr. Khushwant Singh



Government Shyamlal Pandaviya College, Morar, Gwalior (301)

December 2022

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Certificate and Acknowledgement

We the undersigned take the opportunity to acknowledge and gratitude to Madhya Pradesh Higher Education Quality Improvement Project (MPHEOIP)/ World bank project to sanctioned amount for academic mediance to our college code 301. We certify that the present work was made and that no work has been mentioned without

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प्राचार्य

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SUMMARY OF THE PROJECT

(Financial Assisted by QLC/MPHEQIP, 2022-2023)

Topic: Heterocyclic Pyrazine and Pyrimidine Derivatives: Facile Synthesis, Characterizations and Their DFT Calculation

We are hereby submitting the micro project on the above mentioned title which are summarise below.

Nitrogen rich, pyrazine and pyrimidine are two conventional six-membered heterocycles that are known for over a century and have been explored by various research groups. Subordinates of pyridine have been utilized as drugs, pesticides, and various explorations in biological fields. The pyrimidine heterocyclic moiety is an essential constituent of DNA and RNA of living organisms. Moreover, Pyrimidine based organic molecules such as gemcitabine, cytarabine, 5-fluoro deoxyuridine, capecitabine, and decitabine has been used for the cure of both solid and hematological malignancies. Additionally, the many pyrimidine derivatives are found in numerous common natural products, such as marine alkaloids. In this manner, there is a significant exploration enthusiasm for the improvement of newly synthesized derivatives that contain these nitrogen rich heterocycles and consequently, these are screened for their organic connections, particularly cytotoxicity against different malignant growth cell lines. The ethynyl bridges (—C≡C—) are another significant assisting units that has been joined especially in organometallic edifices of Au(I) and Pt(II) metal elements and the subsequent derivatives have been used as "inorganic" therapeutics specialists for anticancer medications. Further, we are interested to study or calculation of their energy minimized structure or molecular docking structure with the help of DFT. Considering the above mentioned properties of these useful nitrogen rich heterocycles (pyrimidine, pyridine, and ethynyl), have been incorporated in a single organic compound. Moreover, we are also interested to examine their cytotoxicity against different types of cancer disease cell lines such as HT-29, MCF-7, MDA-MB-231 and SK-HEP-1. The acquired information will be helpful in studying and comparing the reports available in the literature. We are hopeful that this project will add new research in the field of applied chemistry that is useful to the society.

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