#### ASHOKRAO MANE GROUP OF INSTITUTIONS



Address: Vathar Tarf Vadgaon, Tal. Hatkanangale, Dist. Kolhapur - 416 112 (Maharashtra) Phone: (0230) 2407740, 2407760 Fax: (0230) 2407750 Email: director@amgoi.edu.in Website: www.amgoi.org

Approved by: AICTE, New Delhi No. F-No. MS ( NewInt ) 2009 / 08, Higher & Technical Education Department, Govt. of Maharashtra, Directorate of Technical Education, Mumbai. Affiliated to: Dr. Babasaheb Ambedkar Technological University, Lonere - Raigad. (B.Tech. & M.Tech. Programs), Shivaji University, Kolhapur. (MBA Program),

Accredited by NAAC with 'A' Grade CGPA 3.08

**Founder President** Late Shri. Ashokrao Mane

I/C Director Prof. Pravin B. Ghewari

President Hon. Shri. Vijaysinh A. Mane

Date: 05/10/2020

Ref. No.: AMGOT / 2020 - 21/573-1

#### Reasearch & Development Policy (R&D)

Creative thinking and scientific research is necessary requirement for creating successful engineers and quality education system. The objective of research & development (R&D) initiatives undertaken by Shri Balasaheb Mane Shikshan Prasarak Mandal Ambap's, Ashokrao Ashokrao Mane Group of Institutions, (AMGOI) Vathar Tarf Vadgaon is to support and strengthen the creative education culture, to promote the creation of next applications, and to build research and entrepreneurship oriented careers. All education, research and innovation efforts are aimed to achieve the high standard education system in this campus. The goal of creating technological and social innovations is the basis of all R&D based activities. To achieve the high quality research ambience, the following policies has been undertaken. The research and development cell has been established that will prepare and implement the system for advance of research and development activities within the Institute.

As per resolution passed in R&D committee meeting held on 2 December 2020, it is resolved that the R&D rules and policies are as follows.

#### Proposed Research and Development Policy for Faculty and Students

#### I. Research publication:

#### a) In National Conference for Faculty:

For the first author, registration fees maximum up to Rs. 2,000/ or TA/DA shall be reimbursed as per Institute rules (Once in a calendar year). Duty leave for the day of conference shall be provided to the faculty.

If faculty member wants to attend second time in a calendar year, then for the first author, registration fees maximum up to Rs.1,000/ or TA/ DA shall be reimbursed as per Institute rules (Once in a calendar year). Duty leave for the day of conference shall be provided to the faculty.

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I/C Director Prof. Pravin B. Ghewari President Hon. Shri. Vijaysinh A. Mane

Ref. No.:

Date:

#### b) In International Conference for faculty:

- I) Within India: Faculty member (first author), can attend such conference once in calendar year, and registration fees maximum up to Rs. 5,000/- and TA/DA shall be reimbursed as per Institute rules. Duty leave for the day of conference and additional one day for travelling shall be provided to the faculty.

  If faculty member (first author) wants to attend second time in a calendar year, then registration fees maximum up to Rs. 2,000/- and TA/DA shall be reimbursed as per Institute rules (Once in a calendar year). Duty leave for the day of conference and additional one day for travelling shall be provided to the faculty.
- II) Outside India: Faculty member (first author) can attend such conference once in a 05 year with full registration fees or 50% Air Travel expenditure shall be reimbursed. DA will be paid as per UGC guidelines based on specific country visited only for the day of travelling and conference day(s). Duty leave for the day of conference and additional three day for travelling shall be provided to the faculty.

## c) In International/National conference for M. Tech. /B. Tech. Students:

Students will be paid registration fees up to maximum Rs. 2,000/- once in year for their paper presentation based on M. Tech. Dissertation work/Project work.

# d) Publications of article in SCI/Web of Science/Scopus Indexed Journals/ Chapters in reputed book/Book of reputed publisher

For the faculty and students those are publishing the papers in SCI/Web of Science/Scopus Indexed Journals/ Chapters in book/Book of reputed publisher will be awarded with Rs.5, 000 for each paper/chapter/Book. For paid journals/chapters in book, publication/processing charges of 20% of registration shall be reimbursed.

#### II) Patents:

The following amount shall be given to the faculty and students during application of patent or after granting of patent by IPO.

DTE Institute Code: 6217



#### Shri Balasaheb Mane Shikshan Prasarak Mandal's

ASHOKRAO MANE GROUP OF INSTITUTION

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Founder President Late Shri. Ashokrao Mane I/C Director
Prof. Pravin B. Ghewari

President Hon. Shri. Vijaysinh A. Mane

Ref. No.:

Date:

- a) Patent having potential for commercial application: 10,000/
  - b) No commercial application: 5,000/-

#### III) Research Assistantship:

Maximum 10 duty leaves per year for the course duration prescribed by the respective university shall be provided by the institute to the faculty perusing Ph.D.

# IV) Projects: Received Research Grant by Government authorities such as DST/DBT/DRDO/ISRO/BARC/UGC/UNIVERSITY or by Private Funding Agencies

Under this scheme, Principal Investigator will be eligible to get the incentives (if it is not available in the schemes) as per following categories of the projects.

Category	Project Categories based on Amount of Research Grant received	Incentive Amount (Rs.)
A	Research grant more than Rs.10.00 lakhs	10,000/-
В	Research grant more than Rs.10.00 lakhs & to Rs.25.00 lakhs	15,000/- to 25,000/-
С	Research grant more than Rs.25.00 lakhs	Per 1 lakh, Rs 1,000/-

- When more than one person is working on the project, the incentive amount will be equally divided amongst the team member or can be decided case to case basis.
- Out of the total incentive amount, first payment (50% of incentive amount) will be
  made after the receipt of approval letter and the amount of grant in full or partial as
  per the agreement between AMGOI and concerned funding agency. Balanced 50%
  amount will be paid only after successful completion of the said research project.

## IV) FDP/STTP/RPS/MODROB'S, etc., Under AQIS Schemes Proposals Sanctioned by AICTE:

The chief coordinator of the sanctioned proposal, will be entitled to get the incentive amount of Rs. 10,000/-, out of which, Rs.5,000/- will be paid after the receipt of sanctioning letter and the amount of grant. Remaining amount of Rs. 5,000/- is to be paid after successful completion of proposal.

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Founder President Late Shri. Ashokrao Mane

I/C Director
Prof. Pravin B. Ghewari

President Hon. Shri. Vijaysinh A. Mane

Date:

Ref. No.:

#### V) Special award to student's project:

B.Tech./M.Teach. student project having technological or social importance will be awarded with a prize of Rs. 5,000 and certificate.

#### VI) Consultancy work:

The coordinator will be entitled to get the incentive of 50% of consultancy work charges, after the completion of work/project and receipt of consultancy amount to the Institute.

#### VII) Participation in AICTE/ISTE, etc. sanctioned STTP/FDP:

The faculty participating in AICTE/ISTE, etc. sanctioned STTP/FDP/Training Program shall be entitled to get Registration fee or TA/DA from the Institute (Once in a calendar year). Duty leave for the day of program shall be provided to the faculty.

#### Research and Development (R&D) Cell Committee

Sr. No.	Name of Member	Designation	T a:
1	Prof. P. B. Ghewari		Signature
2		Chairman	Street
3	Prof. R. A. Pasale	Member	0
	Prof. J. M. Shinde	Member	Gan
4	Prof. Mrs. S. S. Patil	Member	and die
5	Prof. S. S. Redekar	Member	100
6	Prof. Mrs. S. H. Shete	Member	AIO
7	Prof. G. R. Gaikwad		Gille
8	Prof. R. S. Patil	Member	
9	Prof. D.J.Pawar	Member	The state of the s
10	Mr. Sandip Kulkarni	Member	Diawar
12	Mr. Harshwardhan Dhotre	External Member	Alcapi.
13	Dr. V. D. Shinde	External Member	Dhatan
14	Dr. H. V. Shete	External Member	Whitely,
	Di. ii. v. Shete	Member Secretary	SA
	Λ	JAN GROUP	

Dean R&D Dr. H.V.Shete

Dean IQAC Prof. R.S.Patil Tai. Hatkanangale Dist. Kolhapur

I/C Director rof. P.B.Ghewari

Copy to: All Dean; All HOD

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I/C Director
Prof. Pravin B. Ghewari

President Hon. Shri. Vijaysinh A. Mane

Ref. No.:

Date:

- a) Patent having potential for commercial application: 10,000/
  - b) No commercial application: 5,000/-

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- When more than one person is working on the project, the incentive amount will be equally divided amongst the team member or can be decided case to case basis.
- Out of the total incentive amount, first payment (50% of incentive amount) will be made after the receipt of approval letter and the amount of grant in full or partial as per the agreement between AMGOI and concerned funding agency. Balanced 50% amount will be paid only after successful completion of the said research project.

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Union Bank कोडोली शाखा, कोल्हापुर - ४१६,११४ КОДОСІ ВПАНСН, КОЦНАРИЯ-416114 IFS Code : UBIN0557706

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For ASHOKRAO MANE GROUP OF INSTITUTIONS

I त्पारी सभी शांखाओं में सममृत्य पर देश LE AT, PAR AT ALL OUN BRANCHES IN INDIA 9/00/2024-CJV

Ashokrao Mane GPOEPSFIRSUREROSS, IIS Vathar Tarf Vadgaon Tal, Hatkanangale, Dist, Kolhapur

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बॅक ऑफ इंडिया.

शाखा - पेठ वडगांव.

विषय:-Research Contribution (R & D CELL) २०१७ ते २०२३मानधन शिक्षक यादी प्रमाणे संबंधित खातेवर रक्कम वर्ग करणेबाबत ... महोदय.

सोबत जोडलेल्या यादीप्रमाणे Research Contribution (R & D CELL) २०१७ ते २०२३ मानधन शिक्षक यादी प्रमाणे संबंधित खातेवर खाते क्रमांक ५७७००१०१००५०३३७ मधुन रक्कम वर्ग करावी ही विनंती.

कळावे,



आपला विश्वास् .

सोबत - १. यादी :-

२. चेक क्र :- ०६६६९९

DIRECTOR

SHRI BALASAHEB MANE SHIKSHAN PRASARAK MANDAL'S ASHOKRAO MANE GROUP OF INSTITUTIONS Vathar Tari Vadgaon, Tal. Hatkanangale, Dist. Kolhapur, M.S. 416112

	Ashokrao Mane Group of Institutions,F R &D Cel	Contribution		
1	Dr.Shete Hanmant Virbhadra	A STATE OF THE PARTY.		N ATT
2	Dr.Vanmore Swapnil Vasantrao	921010044066061	UTIB0003805	50000
3	Mrs.Shete Sangeeta Hanmant	923010042301429	UTIB0003805	5000
4	Dr.Shinde Jaydeep Mohanrao	921010044066443	UTIB0003805	5000
5	Mrs.Patil Seema Suhas	921010044065602	UTIB0003805	5000
6	Mr.Powar Prathmesh Sanjay	921010027460138	UTIB0003805	5000
7	Mrs.Thombare Vinaya Kaustubh	917010032275717	UTIB0003805	5000
8	Mr.Sutar Maheshkumar Arjun	921010044065974	UTIB0003805	3500
9	Dr.Sutar Sagar Shivaji	921010027461568	UTIB0003805	1000
0	Mr Pawar Sangram D	921010044066375	UTIB0003805	3000
11	Mr.Pawar Sangram Pandurang Mr.Sawant Tejas Prakash	921010027461898	UTIB0003805	5000
12	Mr Chayan Patil Carried Mr	921010027850489	UTIB0003805	5000
13	Mr.ChavanPatil Ganesh Namdav	921010027849481	UTIB0003805	1000
14	Mr.Redekar Suraj Shivaji	921010027461542	UTIB0003805	1500
nous Nous	Mr.Patil Dhanaji Sarjerao	921010027849447	UTIB0003805	5000

	Ashokrao Mane Group of Institutions, Fa R &D Cell	Contribution	Tarr Vaugaon	
1	Dr Shote Universit Ali III	Accountance	াট্ডিলেন্ডার	Valinte sin
	Dr.Shete Hanmant Virbhadra	921010044066061	UTIB0003805	12500
2	Mrs.Shete Sangeeta Hanmant	921010044066443	UTIB0003805	5000
3	Mrs.Patil Seema Suhas	921010027460138	UTIB0003805	15000
4	Mr.Rabade Amol Balawant	921010027849531	UTIB0003805	5000
5	Mr.Sanadi Atulkumar Gulab	921010027849971	UTIB0003805	1000
6	Mrs.Thombare Vinaya Kaustubh	921010044065974	UTIB0003805	
7	Mr.Sutar Maheshkumar Arjun	921010027461568	UTIB0003805	2500
8	Dr.Sutar Sagar Shivaji	921010044066375	UTIB0003805	8500
9	Mr.Sawant Tejas Prakash	921010027850489	UTIB0003805	2000
10	Mr.Ladgaonkar Pramod Sarjerao	921010027849719	UTIB0003805	2500
11	Mr.Bhosale Sarvajeet Amarjeet	921010027849926	UTIB0003805	1000
	Mr.Pawar Digvijay Jotiram	921010027850094	UTIP0003805	5000
12		923010039686522	UTIB0003805	8500
13	Mr.Dopare Sangram Ananda	32001030000322	UTIB0003805	2500

		The structure is		AP SPASSA
1	Mrs.Patil Seema Suhas	921010027460138	UTIB0003805	5000
100	Mr.Sanadi Atulkumar Gulab	921010027849971	UTIB0003805	5000
	Mr.Patil Dhanaji Sarjerao	921010027849447	UTIB0003805	5000



DIRECTOR

SHRI BALASAHEB MANE SHIKSHAN PRASARAK MANDAL'S ASHOKRAO MANE GROUP OF INSTITUTIONS
Valhar Tarl Vadoaon, Tal. Halkanangale, Dist. Kolhapur, N.S. 416112

Ashokrao Mane Group of Institutions, Faculty of Engineering , Vathar Tarf Vadgaon						
	R &D Cell (	Contribution	1	The second of the second of the second		
7,4,10	Name	yAimening (		T. William		
1	Dr.Shete Hanmant Virbhadra	921010044066061	UTIB0003805	50000		
2	Dr. Vanmore Swapnil Vasantrao	923010042301429	UTIB0003805	5 <b>0</b> 00		
3	Mrs.Shete Sangeeta Hanmant	921010044066443	UTIB0003805	5000		
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9	Dr.Sutar Sagar Shivaji	921010044066375	UTIB0003805	30000		
10	Mr.Pawar Sangram Pandurang	921010027461898	UTIB0003805	5000		
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13	Mr.Redekar Suraj Shivaji	921010027461542	UTIB0003805	15000		
14	Mr.Patil Dhanaji Sarjerao	921010027849447	UTIB0003805	5000		
	TOTAL					

	Ashokrao Mane Group of Institutions, Faculty of Engineering, Vathar Tarf Vadgaon						
	R &D Cell Contribution						
571110	Name	ARREUM NO	[15] ( [15] ( [15] [15] [15] [15] [15] [15] [15]				
1	Dr.Shete Hanmant Virbhadra	921010044066061	UTIB0003805	12500			
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13	Mr.Dopare Sangram Ananda	923010039686522	UTIB0003805	2500			
	TOTAL			AUSTRUM.			

	Ashokrao Mane Group of Institution	ns,Faculty of Engineering ,Vat	har Tarf Vadgaon	,
Vo C and an income in		Cell Contribution		
	Name	Account No.	ELLEGIO (MODIFIER	7.111(0111)
1	Mrs.Patil Seema Suhas	921010027460138	UTIB0003805	5000
2	Mr.Sanadi Atulkumar Gulab	921010027849971	UTIB0003805	5000
3	Mr.Patil Dhanaji Sarjerao	921010027849447	UTIB0003805	5000
	TOTAL			(KININ
	TOTAL	Andrew Control of the		317/311



I/C DIRECTOR

SHRI BALASAHEB MANE SHIKSHAN PRASARAK MANDAL'S
ASHOKRAO MANE GROUP OF INSTITUTIONS
Vathor Teri Vadgaon, Tal. Helkanangale, Dist. Kahapur, M.S. 416.12



#### ASHOKRAO MANE GROUP OF INSTITUTIONS

NH – 4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112 Website: www.amgoi.org



**R&D Cell** 

Date: 25/12/2023

To, The Director, AMGOI

Sub.: Regarding incentives to the faculty for research contribution

Sir,

Research work and contribution has considerable weightage in NAAC, NBA and University audits. AMGOI has active R&D Cell and contribution of faculty in research activity is continuously increased. Herewith, the faculty wise research paper publications, patent publications and the incentive details are given. As a motivation and part of continuous improvement, I request you to sanction the incentive amount.

Thanking you.

Dr.H.V.Shete

Dean R&D



#### **ASHOKRAO MANE GROUP OF INSTITUTIONS**

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**R&D Cell** 



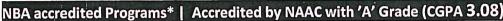
#### Faculty wise Journal Publication Summary (2017-2023)

Name	SCI/SCIE/ WOS	SCOPUS	UGC	Total	Incentive as per AMGOI Policy	Total incentive (Rs.)	No. of papers having affiliation of AMGOI
Dr. H.V. Shete	3	5	2	10		50,000	10
Mrs. S.H.Shete	1	1		2	= _	5,000	0
Mrs. V.K.Thombare	7		8	7		35,000	0 (7 papers with college name in bibliography)
Mr. M. A. Sutar			2	2		10,000	2
Dr. Sagar Sutar		*	6	6	5000/-	30,000	6
Mr. Sangram Pawar			1	1	per paper	5,000	0
Mr. Tejas Sawant			1	1		5,000	1
Mr. S. S. Redekar			3	3		15,000	3
Mrs. S. S. Patil		1		1		5,000	0
Mr. D.S.Patil	-		1	1		5,000	1
Dr.S.V.Vanmore	1			1	-	5,000	0
Dr. J.M.Shinde		1		1		5,000	0
Mr. G.N.Chavan Patil			2	2		10,000	2
Mr. P. S. Powar		1		1		5,000	1
Total	12	9	18	39		1,90,000	-



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#### **R&D Cell**

# Faculty wise conference/ Book/Book Chapter Publication Summary (2017-2023)

Name	International	National	Incentive as per AMGOI Policy	Total incentive (Rs.)	No. of papers having affiliation of AMGOI
Mr. A. B. Rabade	1(b)		-1000/- national conference,	5000	0
Mr. A. G. Sanadi	2 (b)		(a) - 2500/-	10,000	0
Mrs.V.K.Thombare	5 (b)		international conference/book chapter (b) - 5000/- reputed	25,000	1 (4 papers with college name in bibliography)
Mrs.S.H.Shete	2 (a)		international	5000	0
Dr. H. V. Shete	3(a)+1(b)		conference/book	12500	4
Mr. M. A. Sutar	1(a)+1(b)	1		8500	3
Mr.D.J.Pawar	1+1(a)	1		8500	0
Mrs.S.S.Patil	2 (a)+2(b)			15000	0
Dr.Sagar Sutar		2		2,000	2
Mr. Tejas Sawant	1(a)			2,500	0
Mr. P.S.Ladgaonkar		1		1,000	1
Mr. S.A.Bhosale	2 (a)			5,000	0
Mr. Sangram Dopare	1(a)			2,500	0
Total	26	5		1,02,500	122





#### **ASHOKRAO MANE GROUP OF INSTITUTIONS**

NH – 4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112 Website: www.amgoi.org

NBA accredited Programs\* | Accredited by NAAC with 'A' Grade (CGPA 3.08)

**R&D Cell** 



#### Faculty wise Patent Publication Summary (2017-2023)

Patent on	Name of the faculty	Date	Status	Incentiv e as per AMGOI Policy	Total incenti ve (Rs)	No. of patent having name of AMGO
"Evaporator system for Sugar Production"	Mr. Atul. G. Sanadi	16/05/20 23	Publishe d	5000 for grant of patent	5000	0
Sugarcane Peeling Machine	Mr. Dhanaji S patil Mrs. Pradnya D. Patil	26/07/20 . 22	Publishe d		5000	0
A variable rate spraying system	Mrs. S.S.Patil	22/12/20 23	Publishe d		5000	1
		1	Total		15000	÷

Dr.H.V.Shete

Dean R&D

#### Statement of Account

ASHOKRAO MANE GROUP OF INSTITUTIONS C/O ASHOKRAO MANE GROUP OF INSTITUTIONS

.,VATHAR TARF, VADGAON TAL

KODI

State

Country Zip

Mobile No. 9623455095

Maharashtra

Email DIRECTOR@AMGOI.EDU.IN Statement Date 01/02/2024 12:37

Union Bank of India

Branch Kodoli

Customer Id A/C Number 900316346 577001010050337

INR Current Account

Currency
Account Type
MICR Code
IFSC Code

Date	Tran Id	No more records available.  Remarks		9/4 (A) 20/2 (20/2) (A) (A)	NAME OF TAXABLE PARTY.		
01-01-2024		01 =	UTR Number	Instr. Id	Withdrawals	Deposits	Balance
06:19:00 01-01-2024	S6430675	Amt:267246.000000	or '-		315.35		3822435.
10:54:19	S71915120	RTGS:SHRI BALASAHE MANE SHIKSH	В '-			900000.00	
01-01-2024 13:03:17	S77759368	NEFT:EASEBUZZ PVT LT NODAL A/C YESB40019084748	Sender No:YESB400 19084745			89500.00	1 100.
01-01-2024 15:04:35	A394220	BY CASH	'-			70500.00	
01-01-2024 17:57:44	S90695764	NEFT BULK No.of TRAN - 65	'-		2002007.00	78500.00	1000400.5
01-01-2024 17:57:44	S90695764	NEFT BULK CHRG No.of TRAI	N		2023327.00		2867108.4
01-01-2024 18:01:09	S90882970				352.85		2866755.5
01-01-2024	S90882970	NEET BUILD OUT ON	ul l		2167971.00		698784.5
18:01:09 02-01-2024	S6214513	- 65 Cash Trans Chrg fo	'-		358.75		698425.8
05:15:26	30214513	Amt:28500.000000	-		59.00		698366.8
02-01-2024 11:58:53 02-01-2024	S18532345	NEFT:EASEBUZZ PVT LTC NODAL A/C YESB40020674240	Sender No:YESB400 20674240			98720.00	797086.82
13:28:27	S21903175	SMITA ABHIJIT MAHAMUNI	'-	12083337	5000.00		792086.82
15:11:50	A705770	BY CASH	1_			855632.00	
03-01-2024 06:57:29	S51536151	Cash Trans Chrg for Amt:805632.000000	'-		950.65	000002.00	1647718.82
3-01-2024 12:07:21	A287020	YADAV SANJAY MAHADEV	'_	12083445	25000.00		1646768.17
3-01-2024 13:09:41	A472935	BY CASH	1_		2000.00	0.40050.00	1621768.17
3-01-2024 13:15:39	S65179949	Charges for PORD Customer Payment:UBINJ24003383764	'-		F 04	846056.00	2467824.17
3-01-2024 13:15:41	S65179949	NEFTO-GHEVARI PRAVIN	,_	12002440	5.61		2467818.56
3-01-2024 13:18:55		BASAVESHWAR 001198853790 ARAB SAAD SAMEER		12083446	61425.00		2406393.56
3-01-2024		BABASAHEB VASANT WADAR	. '-	12083424	13000.00		2393393.56
3-01-2024		Charges for PORD Customer		12083357	4000.00	7,	2389393.56
-01-2024		Payment:UBINJ24003779673 NEFTO-OM CERAMIES AND	- '-		5.61		2389387.95
-01-2024		TRADING 001199294589	1_	12083449	14600.00		2374787.95
6:58:53		Charges for PORD Customer Payment:UBINJ24003788841	·		5.61		2374782.34
6:58:53		NEFTO-CSI EDUCATION DIRECTORATE 001199287259	-	12083441	25830.00		2348952.34
1.47.24	889959757	NEFT:EASEBUZZ PVT LTD NODAL A/C YESB40032911912	Sender No:YESB400			143342.00	2492294.34
7.40.20	GAAA JULY J	Cash Trans Chrg for Amt:796056.000000	32911912		939.35		
01-2024 1:34:24		NEFT BULK No.of TRAN - 16	'-		234307.00		2491354.99
01-2024		IEFT BULK CHRG No.of TRAN	<u>.</u>				2257047.99
01-2024	3994602 N	EFT:EASEBUZZ PVT LTD	Sender lo:YESB400		86.81		2256961.18

10.04.000	Tran Id	Remarks NEFT:SRA SUSPEN	UTR Numbe	r Instr. Id	Withdrawals	Deposits	Balance
10-01-2024 15:45:18	S7377210		SE Sender GS No:IBKL240 10096331	1		50000.00	
10-01-2024 16:47:45	A959651	BY CASH	'-			54073.00	3610320
10-01-2024 17:00:48 10-01-2024	S77313920	110.01 110.111 50	<u></u>		307500.0		3302820
17:00:49 11-01-2024	S77313920	- 30	'- N		100.4	5	3302719.
08:50:49	S1857296	Cash Trans Chrg Amt:4073.000000	for '-		59.00		3302660.
11-01-2024 14:02:10	S16035159	SHRI RAM CATERERS	'-	1208347	8 36303.00		3266357.
11-01-2024 14:02:12 11-01-2024	S16035159	LINKWELL ENTERPRISES	1-	12083480	100000.00		3166357.
14:02:12	S16035159	RUSHABH TANAJI KURLE	1_	12083405	15000.00		3151357.9
12-01-2024 12:34:10	S55477239	NODAL A/C YESB4012959064	No:YESB401			10000.00	3161357.9
12-01-2024 12:38:51 12-01-2024	A379891	ASHOKRAO MANE GROUP O	F '-			500000.00	3661357.9
13:30:07 12-01-2024	S58042250	THE PLANTAGE TO AIL	1_	12083269	11360.00		3649997.9
13:58:20 12-01-2024	S59532331	Charges for PORD Custome Payment: UBINH24012245037	'-		58.41		3649939.5
13:58:22	S59532331	RTGSO-SHRI BALASAHEI MANE SHIKSH	3 '.	12083481	3000000.00		649939.5
12-01-2024 16:06:18	S65041207	NEFT:BANK OF INDIA BKIDY24012126672	Sender No:BKIDY240 12126672			3037.00	652976.5
15-01-2024 13:34:49	S82066049	PARTH SHIVAJI PATIL	'-	12083444	17450.00		635526.5
15-01-2024 16:23:47	S88656548	BY INST 37968 : CTS MICF O/W CLG	. '-			50000.00	685526.55
15-01-2024 17:51:07	S91789641	NEFT:BOI KODOL BKIDY24015571144	Sender No:BKIDY240 15571144			49000.00	734526.55
16-01-2024 18:10:49	S29635236	NEFT:SAN PRINTS PVT LTD N016242837820298	Sender No:N0162428 37820298			22670.00	757196.55
17-01-2024 15:44:56		BY CASH	7_			13550.00	770746.55
17-01-2024 16:03:59	A698496	ASHOKRAO MANE GROUP OF INSTITUTIONS	'-			1700000.00	2470746.55
17-01-2024 17:33:48		NEFT:ORLANDO ACADEMY ICIB240170032361	Sender No:ICIB2401 70032361			64317.00	2535063.55
17-01-2024 18:06:41		Charges for PORD Customer Payment:UBINH24017524586	'-		58.41		2535005.14
17-01-2024 18:06:41	S66270771	RTGSO-SHRI BALASAHEB MANE SHIKSH	1-	12083482	2200000.00		335005.14
10.10.01		RAJPUT POOJAKUMARI NARENDRAKUMAR	'-	12083378	2000.00		333005.14
10.01.00	S95343075	DATAJI SHIVAJI TORSKAR	<u> </u>	12083450	2000.00		331005.14
9-01-2024	1	PATEL SHAHABAZ HAROON	1_	12083409	2350.00		328655.14
14:09:15 9-01-2024	557500078 F	/ISHWARAJ MADANKUMAR PATI	'-	12083451	17450.00		311205.14
9-01-2024 14:09:15 9-01-2024		RAJPUT SONAMKUMARI IARENDRAKUMAR	<u>_</u>	12083377	2000.00		309205.14
9-01-2024 15:47:32 9-01-2024	A745332 F	RM 101/50336	<u>.</u>			300000.00	609205.14
16:31:21		Y CASH	١,			94720.00	703925.14
16:32:12	P	harges for PORD Customer ayment:UBINH24019669160	1_		28.91		703896.23
16:32:12		TGSO-SHRI BALASAHEB ANE SHIKSH	1_	12083492	450000.00		177

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#### OF PRESENTATION

National Conference on Advanced Computer Science and Information Technology (NCACSI - 23)

24th September 2023 | Pune, India

This is to certify that	Prof. Prathme	sh P. Powar	affilia	ated with
			i, Indiahas presented a pap	
"Effic	ientNet B5: A Robust Approach	to Detect Morphe	ed Images"	
	ar conference organized by	the National Co	onference (NC) held on 24th Septe	mber 2023
at Pune, India.				













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#### SAGAR SHIVAJI SUTAR

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Nominee Registered : Y Nominee Name :GEETA

PAN:BWIPS0938J

CKYC NUMBER :XXXXXXXXXX4909

#### Statement of Axis Account No: 921010044066375 for the period (From: 01-01-2024 To: 31-01-2024)

Tran Date	Chq No	Particulars	Debit	Credit	Balance	Init. Br
		OPENING BALANCE			2812.74	
01-01-2024		921010044066375:Int.Pd:01-10-2023 to 31-12- 2023		106.00	2918.74	3805
01-01-2024		NEFT/010567317805/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		48800.00	51718.74	248
01-01-2024		ATM-CASH- AXIS/APCN13427/2331/010124/KOLHAPUR	3000.00		48718.74	3805
02-01-2024		ATM-CASH- AXIS/APCN13427/2539/020124/KOLHAPUR	1500.00		47218.74	3805
02-01-2024		UPI/P2A/436885539706/BHARATI SHIVAJI SUTAR/Paymen/Bank of India	2500.00		44718.74	3805
02-01-2024		MOB/TPFT/GEETA SAGAR SUT/923010014255282	2000.00		42718.74	3805
03-01-2024		UPI/P2M/400350300506/bazar /Bazar/Axis Bank Ltd.	1116.00		41602.74	3805
04-01-2024		UPI/P2M/437052886878/TATA PLAY DIRECT /Paymen/Yes Bank Ltd	203.00		41399.74	3805
04-01-2024		NEFT/010566606822/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		71622.00	113021.74	248
05-01-2024		NEFT/010567357773/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		71622.00	184643.74	
05-01-2024		PPR013407628990_EMI_05-01-2024_SAGAR SHIVAJI SUTAR	3298.00		181345.74	245
05-01-2024		PPR013408285990_EMI_05-01-2024_SAGAR SHIVAJI SUTAR	26085.00		155260.74	245
05-01-2024		UPI/P2M/400558813368/HOTEL SILVER CASTLE /Paymen/HDFC BANK LTD	2395.00		152865.74	3805
06-01-2024	70696	SAK/CASH WDL/SAK377770393/3805/VADGAON K/SELF	143244.00		9621.74	3805
06-01-2024		NEFT/010567836616/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		120422.00	130043.74	248
06-01-2024		ATM-CASH- AXIS/APCN13427/3182/060124/KOLHAPUR	15000.00		115043.74	3805
06-01-2024		ATM-CASH- AXIS/APCN13427/3183/060124/KOLHAPUR	15000.00		100043.74	
06-01-2024		ATM-CASH- AXIS/APCN13427/3184/060124/KOLHAPUR	15000.00		85043.74	
06-01-2024		ATM-CASH- AXIS/APCN13427/3185/060124/KOLHAPUR	15000.00		70043.74	3805
06-01-2024		ATM-CASH- AXIS/APCN13427/3186/060124/KOLHAPUR	13000.00		57043.74	3805
08-01-2024		UPI/P2M/400869532148/SADULE BROTHERS /Bazar/Axis Bank Ltd.	1250.00		55793.74	

		CLOSING BALANCE			36733.20	
		TRANSACTION TOTAL	318551.54	352472.00		
31-01-2024		UPI/P2A/439722033264/BHARATI S/Bank of I/Bob new/		5900.00	36733.20	3805
31-01-2024		UPI/P2A/439754556501/BHARATI S/Bank of I/Axis emi/		2000.00	30833.20	3805
29-01-2024		ATM-CASH- AXIS/CPRH13403/9716/290124/KOLHAPUR	2500.00		28833.20	3805
27-01-2024		ATM-CASH- AXIS/APCN13427/6704/270124/KOLHAPUR	2000.00		31333.20	3805
25-01-2024		ATM-CASH- AXIS/APCN13427/6431/250124/KOLHAPUR	1000.00		33333.20	3805
22-01-2024		ATM-CASH- AXIS/CPRH13406/6512/220124/PUNE	1000.00		34333.20	3805
21-01-2024		SMS Alerts Chrgs Incl GST	3.54		35333.20	
17-01-2024		ATM-CASH- AXIS/APCN13427/5237/170124/KOLHAPUR	2000.00		35336.74	3805
17-01-2024		UPI/P2M/401726233907/SUPER BAZAR RBL BANK /Bazaar/Axis Bank Ltd.	3127.00		37336.74	3805
16-01-2024		UPI/P2A/401668956235/SUNIL KRISHNAT GAVALI/Paymen/Axis Bank Ltd.	900.00		40463.74	
15-01-2024		ATM-CASH- AXIS/APCN13427/4927/150124/KOLHAPUR	2500.00		41363.74	3805
15-01-2024		UPI/P2A/438181008737/KOUSTUBH ANIL POTDAR /Paymen/HDFC BANK LTD	4030.00		43863.74	3805
14-01-2024		ATM-CASH- AXIS/CPRH13403/7231/140124/KOLHAPUR	4500.00		47893.74	3805
13-01-2024		ATM-CASH- AXIS/CPRH13406/4551/130124/PUNE	1500.00		52393.74	3805
11-01-2024		ATM-CASH- AXIS/APCN13427/4124/110124/KOLHAPUR	1500.00		53893.74	3805
11-01-2024	70706	SAK/CASH WDL/SAK378561721/3805/VADGAON K/SELF	32000.00		55393.74	3805
11-01-2024		UPI/P2M/437737327658/Kalyani Autolinks MPD/Paymen/Yes Bank Ltd	200.00		87393.74	3805
10-01-2024		NEFT/010568731091/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		2000.00	87593.74	248
10-01-2024		NEFT/010568731090/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		30000.00	85593.74	248
09-01-2024		UPI/P2M/437571778527/Kalyani Autolinks MPD/Paymen/Yes Bank Ltd	200.00		55593.74	3805

Charge breakup of Axis Account No :921010044066375 for the period (From : 01-01-2024 To : 31-01-2024)

Sr. No.	Period	<b>Recover Date</b>	Charge Type	Total(RS).	Charges(RS).
1	12-2023	21-01-2024	SMS Alert Fee	3	3

<sup>1.</sup> The 'charges' in the above statement indicate the net chargeable amount for the month. However the actual charge debited to the account might have elements of past unrecoverd charge also.

Unless the constituent notifies the bank immediately of any discrepancy found by him/her in this statement of Account, it will be taken that he/she has found the account correct.

The closing balance as shown/displayed includes not only the credit balance and / or overdraft limit, but also funds which are under clearing. It excludes the amount marked as lien, if any. Hence the closing balance displayed may not be the effective available balance. For any further clarifications, please contact the Branch.

We would like to reiterate that, as a policy, Axis Bank does not ask you to part with/disclose/revalidate of your iConnect passord,login id and debit card number through emails OR phone call Further,we would like to reiterate that Axis Bank shall not be liable for any losses arising from you sharing/disclosing of your login id, password and debit card number to anyone. Please co-operate by forwarding all such suspicious/spam emails, if received by you, to customer.service@axisbank.com

With effect from 1st August 2016, the replacement charges for Debit card and ATM card applicable on Current accounts have been revised. To know more about the applicable charges, please visit www.axisbank.com

<sup>2.</sup> The chargeable amount is exclusive of Goods and Serivce Tax.

Deposit Insurance and Credit Guarantee Corporation (DICGC) insurance cover is applicable in all Banks' deposits, such as savings, current, fixed, recurring etc\* up to maximum amount of Rs 5 Lakh including principal & interest both\* (\* or exceptions and details please refer www.dicgc.org.in)

In compliance with regulatory guidelines, the non-CTS cheque books attached to the accounts would be destroyed in banks core banking System. Thus, Non CTS cheques will not be valid for CASH, Clearing and Transfer transactions

REGISTERED OFFICE - AXIS BANK LTD,TRISHUL,Opp. Samartheswar Temple, Near Law Garden, Ellisbridge, Ahmedabad . 380006.This is a system generated output and requires no signature.

BRANCH ADDRESS - AXIS BANK LTD, VADGAON KASBA MH, RAYEE PLAZA 719B4 BRIDEV CHOWK 1ST FLOOR, NR CENTRAL BUS STAND PETH VADAGAON, TAL HATKANGALE, 416112, KOLHAPUR, MAHARASHTRA, INDIA, TEL:0230-2472013/2471013 FAX:

#### Legends:

ICONN - Transaction trough Internet Banking

VMT-ICON - Visa Money Transfer through Internet Banking

AUTOSWEEP - Transfer to linked fixed deposit

REV SWEEP - Interest on Linked fixed Deposit

SWEEP TRF - Transfer from Linked Fixed Deposit / Account

VMT - Visa Money Transfer through ATM

CWDR - Cash Withdrawal through ATM

PUR - POS purchase

TIP/ SCG - Surcharge on usage of debit card at pumps/railway ticket purchase or hotel tips

RATE.DIFF - Difference in rates on usage of card internationally

CLG - Cheque Clearing Transaction

EDC - Credit transaction through EDC Machine

SETU - Seamless electronic fund transfer through AXIS Bank

Int.pd - Interest paid to customer

Int.Coll - Interest collected from the customer

++++ **End of Statement** ++++

Request From: 10.9.71.13



#### SANGRAM PANDURANG PAWAR

Joint Holder: --

S/O PANDURANG PAWAR, MU PO CHIKHALI TA-

SHIRALA, SANGLI

SHIRALA, SANGLI

SHIRALA

MAHARASHTRA

415408

Customer ID :907127584

IFSC Code :UTIB0003805

MICR Code :416211007

Nominee Registered : Y

Nominee Name: PRIYANKA SANGRAM

PAWAR

PAWAR PAN :CBLPP85360

Registered Mobile No: XXXXXX1835

Registered Email ID:spXXXX43@gmail.com Scheme:LIBERTY SALARY ACCOUNT

#### Statement of Account No: 921010027461898 for the period (From: 10-01-2024 To: 15-01-2024)

Tran Date	Chq No	Particulars	Debit	Credit	Balance	Init. Br
		OPENING BALANCE			6799.55	
10-01-2024		PPR013409037593_EMI_10-01- 2024_SANGRAM PANDURANG P	2013.00		4786.55	245
10-01-2024		NEFT/010568731075/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		5000.00	9786.55	248
11-01-2024		ACH-CR-SHIVAJI UNIVERSITY-NACH- 18894270-18894270		452.00	10238.55	2567
11-01-2024		ACH-CR-SHIVAJI UNIVERSITY-NACH- 18894083-18894083		1060.00	11298.55	2567
11-01-2024	41784	SAK/CASH WDL/SAK378568545/3805/VADGAON K/SELF	5000.00		6298.55	3805
14-01-2024		UPI/P2A/401411344903/SANGRAM PANDURANG PAW/NA/ICICI Bank	2000.00		4298.55	3805
15-01-2024		UPI/P2M/401534519710/AKASH KIRAN PHUT /NA/Yes Bank Ltd	100.00		4198.55	3805
15-01-2024		UPI/P2M/401534802461/KIRAN ASHOK GADALE /Mercha/Bank of India	60.00		4138.55	3805
		TRANSACTION TOTAL	9173.00	6512.00		
		CLOSING BALANCE			4138.55	

Unless the constituent notifies the bank immediately of any discrepancy found by him/her in this statement of Account, it will be taken that he/she has found the account correct.

The closing balance as shown/displayed includes not only the credit balance and / or overdraft limit, but also funds which are under clearing. It excludes the amount marked as lien, if any. Hence the closing balance displayed may not be the effective available balance. For any further clarifications, please contact the Branch.

We would like to reiterate that, as a policy, Axis Bank does not ask you to part with/disclose/revalidate of your iConnect passord,login id and debit card number through emails OR phone call Further,we would like to reiterate that Axis Bank shall not be liable for any losses arising from you sharing/disclosing of your login id, password and debit card number to anyone. Please co-operate by forwarding all such suspicious/spam emails, if received by you, to customer.service@axisbank.com

With effect from 1st August 2016, the replacement charges for Debit card and ATM card applicable on Current accounts have been revised. To know more about the applicable charges, please visit www.axisbank.com

Deposit Insurance and Credit Guarantee Corporation (DICGC) insurance cover is applicable in all Banks' deposits, such as savings, current, fixed, recurring etc\* up to maximum amount of Rs 5 Lakh including principal & interest both\* (\* for exceptions and details please refer www.dicgc.org.in)

In compliance with regulatory guidelines, the non-CTS cheque books attached to the accounts would be destroyed in banks core banking System. Thus, Non CTS cheques will not be valid for CASH, Clearing and Transfer transactions

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#### Legends:

ICONN - Transaction trough Internet Banking

VMT-ICON - Visa Money Transfer through Internet Banking

AUTOSWEEP - Transfer to linked fixed deposit

REV SWEEP - Interest on Linked fixed Deposit

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EDC - Credit transaction through EDC Machine

SETU - Seamless electronic fund transfer through AXIS Bank

Int.pd - Interest paid to customer

Int.Coll - Interest collected from the customer

++++ **End of Statement** ++++



#### TEJAS PRAKASH SAWANT

Joint Holder :- -

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OCTRI POST

KOLHAPUR

MAHARASHTRA-INDIA

416007

IFSC Code :UTIB0003805 MICR Code :416211007

Nominee Registered : Y

Customer ID: 860563424

Nominee Name :PRATIBHA TEJAS

SAWANT

PAN :BWIPS7977P

PAN :BWIPS/9//P CKYC NUMBER :XXXXXXXXXX5046

Registered Mobile No :XXXXXX5894

Registered Email ID:teXXXX54@gmail.com Scheme :PRESTIGE SALARY ACCOUNT

#### $Statement \ of \ Axis \ Account \ No: 921010027850489 \ for \ the \ period \ (From: 01-01-2024 \ To: 31-01-2024)$

Tran Date	Chq No	Particulars	Debit	Credit	Balance	Init. Br
		OPENING BALANCE			149.07	
01-01-2024		921010027850489:Int.Pd:01-10-2023 to 31-12- 2023		46.00	195.07	3805
01-01-2024		NEFT/010567317804/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		37800.00	37995.07	248
04-01-2024		UPI/P2A/437080361737/Mrs PRATIBHA TEJAS SA/Paymen/Bank of Maharashtra	3000.00		34995.07	3805
04-01-2024		NEFT/010566606821/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		25028.00	60023.07	248
04-01-2024		MOB/TPFT/915010053925929/915010053925929	60000.00		23.07	3805
05-01-2024		NEFT/010567357772/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		25028.00	25051.07	248
05-01-2024		ATM-CASH/WSBL WATHAR/KOLHAPUR/050124	10000.00		15051.07	3805
05-01-2024		ATM-CASH/WSBL WATHAR/KOLHAPUR/050124	10000.00		5051.07	3805
06-01-2024		NEFT/010567836615/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		62828.00	67879.07	248
06-01-2024		MOB/TPFT/915010053925929/915010053925929	60000.00		7879.07	3805
07-01-2024		MOB/TPFT/TEJAS PRAKASH S/915010053925929		20000.00	27879.07	134
07-01-2024		ATM-CASH- AXIS/DPRH301401/8779/070124/KOLHAPUR	15000.00		12879.07	
07-01-2024		ATM-CASH- AXIS/DPRH301401/8780/070124/KOLHAPUR	11000.00		1879.07	3805
07-01-2024		UPI/P2A/400749360587/NAMDEV VI/Axis Bank/UPI/	11000.00	1000.00	2879.07	3805
10-01-2024		NEFT/010568731082/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		2500.00	5379.07	248
10-01-2024		NEFT/010568731081/ASHOKRAO MANE GROUP OF INSTI/UNION BANK OF INDIA/SALARYNA		5000.00	10379.07	248
11-01-2024	70849	SAK/CASH WDL/SAK378562412/3805/VADGAON K/SELF	7500.00		2879.07	3805
16-01-2024		NBSM/45617242/RBL BANK(RAZORPAY)/	101.35		2777.72	3805
16-01-2024		UPI/P2M/401677839175/Vardhaman Optical UNR/Paymen/Axis Bank Ltd.	400.00		2377.72	3805
16-01-2024		UPI/P2M/438217313861/JIOIN APP DIRECT /Paymen/Yes Bank Ltd	752.00		1625.72	3805

	CLOSING BALANCE			12.70	
	TRANSACTION TOTAL	229416.37	229280.00		T
29-01-2024	UPI/P2M/402909819147/IMRAN RAHIMTULLA TAMB/Paymen/Paytm Payments Bank	40.00		12.70	3805
28-01-2024	UPI/P2M/439470624203/QUALITY FOODS /Paymen/Yes Bank Ltd	250.00		52.70	3805
27-01-2024	UPI/P2M/402710480151/Sanjiv Shankarrao Kha/Paymen/Paytm Payments Bank	50.00		302.70	3805
26-01-2024	UPI/P2M/402692761636/OM GANESH CENTRE /Paymen/Axis Bank Ltd.	55.00		352.70	3805
26-01-2024	UPI/P2M/402634474213/SANDEEP BAKERY /Paymen/Paytm Payments Bank	120.00		407.70	3805
26-01-2024	UPI/P2A/402665793778/SANGRAM PANDURANG PAW/Paymen/ICICI Bank	540.00		527.70	3805
23-01-2024	MOB/TPFT/915010053925929/915010053925929	20000.00		1067.70	3805
21-01-2024	UPI/P2M/438746586844/JIOIN APP DIRECT /Paymen/Yes Bank Ltd	62.00		21067.70	3805
21-01-2024	SMS Alerts Chrgs Incl GST	5.02		21129.70	
20-01-2024	MOB/TPFT/915010053925929/915010053925929	30000.00	30.00	21134.72	
20-01-2024	UPI/P2A/438606482577/NAMDEV V/Bank of I/UPI/		50.00	51134.72	3805
19-01-2024	UPI/P2M/401903002648/ASHOKRAOMANEAY URVEDIK/Paymen/Axis Bank Ltd.	481.00		51084.72	3805
19-01-2024	UPI/P2M/401928908601/ ASHOKRAO MANE AYURVE/Paymen/Union Bank of India	60.00		51565.72	3805
18-01-2024	BY CASH DEPOSIT- BNA/BPRH119601/9748/180124/KOLHAPU		50000.00	51625.72	3805

Charge breakup of Axis Account No :921010027850489 for the period (From : 01-01-2024 To : 31-01-2024)

Sr. No.	Period	Recover Date	Charge Type	Total(RS).	Charges(RS).
1	12-2023	21-01-2024	SMS Alert Fee	4.25	4.25

<sup>1.</sup> The 'charges' in the above statement indicate the net chargeable amount for the month. However the actual charge debited to the account might have elements of past unrecoverd charge also.

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VMT-ICON - Visa Money Transfer through Internet Banking

AUTOSWEEP - Transfer to linked fixed deposit

<sup>2.</sup> The chargeable amount is exclusive of Goods and Serivce Tax.

REV SWEEP - Interest on Linked fixed Deposit

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++++ End of Statement ++++

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[ Assist. Prof.-Ashokrao Mane Group Of Institutions, Vathar.; Principal, Anandi Arts, Commerce & Science Mahavidyalaya, Gaganbawada.; P.G Students, Faculty Of Management Studies, Ashokrao Mane Group Of Institutions, Vathar. ]

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Ashok Yakkaldevi Editor-in-Chief

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RUSA 2.0 Quality Enhancement and Excellence of Higher Education, College with Potential For Excellence (CPE)

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paper entitled Consumer Perception and Buying Behaviour Towards LED Lights

in INTERNATIONAL CONFERENCE ON FUTURE GLOBAL BUSINESS AND TECHNOLOGY (CHALLENGES

AHEAD) organized by CHHATRAPATI SHAHU INSTITUTE OF BUSINESS EDUCATION AND RESEARCH,

KOLHAPUR from 8th December 2022 to 10th December 2022.

Prof. Dr. S. P. Rath

Prof. Dr. R. A. Shinde SECRETARY AND MANAGING TRUSTEE



# International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING

ISSN:2147-6799 www.ijisae.org Original Research Paper

# **Automatic Segmentation Using U-Net for Accurate Liver Segmentation** of CT Images

S. V. Vanmore<sup>1</sup>, S. S. Nikam<sup>2</sup>, R. B. Dhumale<sup>3</sup>, N. R. Dhumale<sup>4</sup>, P. B. Mane<sup>5</sup>, A. N. Sarwade<sup>6</sup>

**Submitted**: 08/05/2023 **Revised**: 15/07/2023 **Accepted**: 06/08/2023

**Abstract:** In this paper a high-resolution U-Net architecture for the segmentation of liver Computed Tomography (CT) scan images with high accuracy is presented. The contraction and expansion paths present in the proposed U-Net allow for reducing computational time and increase the resolution of information of the liver CT scan image respectively. The high-resolution U-Net architecture has been trained and validated using an IRCAD 2D liver CT image dataset. Performance of the U-Net architecture has been verified by calculating performance metrics of segmented 2D liver CT scan images. Results of performance metrics show that the proposed U-Net architecture achieves the best quality performance. The maximum dice coefficient of the liver segmentation during training phase is 95.79 % whereas during validation phase is 89.27 %. The high-resolution U-Net architecture has also compared with other researcher's work in this paper.

Keywords: Liver CT images; Segmentation; Deep neural network; U-Net; Convolution Neural Network.

#### 1. Introduction

Liver size, texture abnormalities and liver abnormalities are important parameters for the diagnosis of disease, so segmentation of liver is significant factors in CT and are important diagnostic markers for disease progression in primary and secondary liver tumor diseases [1]. Manual or semi manual techniques of segmentation have been using in clinical routines, but those techniques are subjective, operator controlled, and very time consuming. Computeraided segmentation methods have been established to increase the efficiency of radiologists, however still some challenges in automated segmentation of the combined liver and lesions have left, such as segmentation of different sizes of the liver with varying amounts of the lesion [2][3]. Several segmentation techniques proposed that includes the intensity threshold, region growth, deformation models and multi threshold for accurate segmentation of the liver and lesion in CT images. The graph cut and level set techniques have been employed for liver and liver lesion segmentation [4]. In present years the convolution neural networks have been developed for semantic segmentation; however particular conventional artificial neural network and fully convolution neural networks have achieved extensive achievement [5]. The conventional artificial neural network has been used for

1Electronics Engineering, Department of Technology, Shivaji University, Kolhapur, 416004, Maharashtra, India 2,3,5 AISSMS Institute of Information Technology, Pune, India.

4,6 Sinhgad College of Engineering, Pune, India. \*Correspondence: shobha.nikam@aissmsioit.org; Tel.: (+91 9860709687)

liver segmentation, but this network is slow and giving imprecise results of segmentation. It requires a large set of data for training. A fully connected convolution neural network gives precise liver segmentation results. However, the network is slower, since it uses several kernel filters for retrieval of feature vectors using the sliding window technique; also it requires a large set of data for the training. To overcome the drawbacks of these networks the U-Net has proposed in this paper. The proposed U-Net network is fast, giving precise segmentation results and it required a limited set of data for training. The execution has been done on the Tens or Flow Processing Unit (TPU).

#### 2. Data Set Information

The segmentation of the liver has carried out using CT scan images provided by the IRCAD data set. This data set is standard data set, which is used by the various researchers for their work on biomedical engineering. The IRCAD dataset of liver images consists of 3D CT scan images of ten women and ten men volunteers with age group 26 years to 75 years. The data set consists of 20 3D medical examination CT scan images. These images are NifTi format. Live resource images and mask images have been used from this data set. For image segmentation, CT scan images are read by using the in-babel python library. The 2D slices of CT scan images are extracted from 3D medical examination images. Each image size has a memory of 84 kB, with 512 rows and 512 columns. There are 2379 2D CT scan images from which 1155 2D data set for training of the proposed network have been selected. The same number of the 2D mask has been used as target



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## Hybrid CNN-RF Algorithm for Facial Expression Recognition using Different Datasets

1\* Sarvajeet A. Bhosale and 2 Dr. Sangeeta R. Chougule

**Submitted**: 29/01/2024 **Revised**: 07/03/2024 **Accepted**: 15/03/2024

Abstract: Facial emotions have gained a significant importance in the area of computer vision as one can naturally express feeling non-verbally using facial expressions. A human can express a many emotion, like angry, disgust, happy, afraid, sad, neutral and surprised each emotion has a set of components. Using various deep learning techniques, many researchers have been researching in this area for facial recognition. According to existing researches, emotions may vary for trained datasets and also change in image characteristics due to high shutter speed or real time video may occur. These changes may lead to incorrect result in Facial emotion recognition. To overcome this issue, new approach of a hybrid model is proposed for Facial Emotion Recognition (FER). A hybrid model using CNN and RF Classifier with MTCNN is designed to get better performance. The collection of data is the first step in recognising and classifying face expressions in this model. These data are pre-processed for removing the unnecessary data from the raw data and are extracted for features with the MTCNN (Multi-task Cascaded Convolutional Networks) by segmenting and localizing the image. CNN-RF hybrid architecture takes extracted features as input, where CNN architecture is used in the process of feature extraction and RF is used as a classifier. The performance metrics of the proposed architecture varies for different datasets but the overall percentage for accuracy, sensitivity, precision and error of FER are 88.5%, 88%, 82%, 11.5%. Thus, the designed model instantly recognizes the facial expression and classifies the gender in effective manner.

Keywords: Hybrid CNN-RF, FER, MTCNN, Lucy-Richardson, Contrast stretching

#### 1. Introduction

Facial expressions contain emotional information on wider range and it is very useful for interpersonal communication. FER has become a biometric recognition technology due to its distinct features like non-contact, intuition, nature, safety and rapidity [1]. Emotional expression consists of facial expression, voice and language. From this 100% emotion expression, Facial expression has 50% of information, voice information is 40% and remaining is for language and other [2]. Now a days to Facial expressions are studied on larger extent by the researchers as it has gain more importance in AI and human machine interaction. Generally, Static and dynamic features both are considered as an input during the FER system design [3]. The system works in three steps: detection of face, extracting features and classifying expressions.

The main objective of face detection is to check face part is present or not in the captured image and sometime it is also useful in to employ pre-processing techniques, if required. Detected faces contain the facial features which are useful in facial emotion recognition [4]. MTCNN extracts the face frame from image for recognizing the

FER which is recently considered as the dominant multistage structure and multi-task structure. Variation of pixel is found to more in face detection, it may vary from few pixels to large pixels than that of object detection [5]. MTCNN uses image pyramid method which may not be more suitable on tiny faces and the faces with higher degree of variations in scale. The basic is in first stage, P-net structure generates candidate window by using shallow CNN. The high discriminative features cannot be extracted from the shallow P-Net, which comes from deep neural network [6]. A loss may occur in the robustness and feature discrimination because of setting the kernel at standard convolution. This is caused due to sampling at same centre and at same size.

FER Classification based on Deep Learning has gained wide attention. Face expressions are key tools for expressing and conveying an individual's emotional reaction and state during daily activities [7]. Using various techniques, many researchers have been researching in this area for facial recognition. Computer Vision field is emerging with the help of deep learning architectures resulting in many research work by adopting big data [8]. CNN reduces the dependency of other pre-processing algorithms [9]. The hybrid approach will also help in increasing the performance rate in FER [10]. Thus, this paper proposes a novel approach of FER. Proposed model has following major aspects:

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<sup>1\*</sup>Corresponding Author Email: sarvajeet.bhosale@gmail.com

# पेटेंट कार्यालय शासकीय जर्नल

# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 51/2023 ISSUE NO. 51/2023

शुक्रवार FRIDAY दिनांकः 22/12/2023

DATE: 22/12/2023

## पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

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(86) International

(87) International

Publication No

Filing Date

Filing Date

**Application Number** 

Filing Date

(62) Divisional to

(61) Patent of Addition:NA to Application Number :NA

Application No

classification

(22) Date of filing of Application :28/11/2023

(43) Publication Date: 22/12/2023

#### (54) Title of the invention: A VARIABLE RATE SPRAYING SYSTEM AND A METHOD FOR OPERATING A VARIABLE RATE SPRAYING SYSTEM

:G05D0001020000, A01M0007000000,

B05B0013000000, G06N0003040000,

B05B0013040000

:NA

:NA

: NA

:NA

:NA

(71)Name of Applicant:

#### 1)Seema S. Patil

Address of Applicant : Assistant Professor, Department of Electronics and Telecommunication Engineering, Ashokrao Mane Group of Institutions, Vathar Tarf Vadgaon, Dist: Kolhapur,

Maharashtra, India Kolhapur -----

2)Dr. Yuvraj M. Patil 3)Dr. S. B. Patil 4)Dr. R.V. Powar Name of Applicant: NA Address of Applicant: NA

(72) Name of Inventor: 1)Seema S. Patil

Address of Applicant : Assistant Professor, Department of Electronics and Telecommunication Engineering, Ashokrao Mane Group of Institutions, Vathar Tarf Vadgaon, Dist: Kolhapur,

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Address of Applicant : Assistant Professor, Department of Farm machinery and Power Engineering, Dr. D. Y. Patil College of Agricultural Engineering and Technology Talsande, Dist: Kolhapur, Maharashtra, India Kolhapur -----

#### (57) Abstract:

The system comprises a robotic vehicle (102) comprises a frame to the robotic vehicle having two parallel linear guides (1) to control vertical movement of a sprayer assembly; three nozzles(3) to the robotic vehicle to spray liquid at variable rates; a slider(6) to adjust the position of nozzles for precise targeting; a set of transport wheels(5) to facilitate movement of the robotic vehicle; and a tank(4) to store a liquid to be sprayed; a pair of cameras(2) to detect terrain and crop conditions; a proximity sensor(8) to detect obstacles for maintaining a safe distance during operation; a data acquisition unit(104) for real-time data collection related to tree canopy characteristics; a data processing unit(106) for processing data collected by the sensors and utilizing deep learning techniques to analyze the data; and a spray control unit(108) that automates agrochemical spray, adjusting a flow rate based on the analyzed canopy characteristics and dynamic nozzle positioning.

No. of Pages: 29 No. of Claims: 10

#### Shri Balasaheb Mane Shikshan Prasarak Mandal Ambap's

#### Ashokrao Mane Group of Institution Vathar Tarf Vadgaon

#### **ADVANCE CLEARING FORM**

Date: 04/04/2024

Vice Principal

**DEPARTMENT** 

: - Civil Engineering

ADVANCE TAKEN BY

ADVANCE AMOUNT

:- 10,000/

ADVANCE TAKEN FROM :- Mr. H.M. Bhosqle

SUBJECT Financial Support: One Week Faculty Development Program on Arduino from 26/03/2024 to 30/03/2024 participants

SR. NO.	DESCRIPTION	QUANTITY	BILL NO.	AMOUNT
1	Registration Fee	25		10,000/-

Total Expenditure	10,000/-
Total Advance	00/-
Balance Amount	00/-
RETURN TO	00/-

Coordinator

Mr. H.M. Bhosale

HOL

Civil Engineering

AMGOI, Faculty of Engineering /athar Tarf Vadgaon, Tal. hatkanangale, Dist. Kolhapw



## **ASHOKRAO MANE GROUP OF INSTITUTIONS**

NH – 4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112 E-mail: <u>hodcivil@amgoi.edu.in</u>, Website: <u>www.amgoi.org</u>



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## DEPARTMENT OF CIVIL ENGINEERING

Date -04/04/2024

## Financial Support Provided for One Week Faculty Development Program on "Arduino"

Sr. No.	Name of teacher	Name of conference/ workshop attended for which financial support provided	Amount of support	Sign
1	Dr. J. M. Shinde	One Week Faculty Development Program on Arduino	400	and
2	Mr. J. A. Patil	One Week Faculty Development Program on Arduino	400	and a
3	Mr. G. N. Chavan Patil	One Week Faculty Development Program on Arduino	400	Dis
4	Mr. Y. S. Chokakkar	One Week Faculty Development Program on Arduino	400	Qui on in m
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9	Dr. C. R. Dongarsane	One Week Faculty Development Program on Arduino	400	Chemikiyan
10	Mr. S. V. Dafade	One Week Faculty Development Program on Arduino	400	Silm
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12	Mr. P. S. Ladgaonkar	One Week Faculty Development Program on Arduino	400	8
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14	Mrs. S. A. Shankardas	One Week Faculty Development Program on Arduino	400	(DOIS
15	Mrs. V. Y. Powar	One Week Faculty Development Program on Arduino	400	Paux
16	Mr. A. B. Rabade	One Week Faculty Development Program on Arduino	400	36
17	Mrs. S. R. Patil	One Week Faculty Development Program on Arduino	400	Sno
18	Mrs. V. D. Desai	One Week Faculty Development Program on Arduino	400	Boscu
19	Mr. S. S. Petkar	One Week Faculty Development Program on Arduino	400	Sosei Anz
20	Ms. P. P. Nagarale	One Week Faculty Development Program on Arduino	400	Nmw

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NH – 4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112 E-mail: <a href="mailto:hodcivil@amgoi.edu.in">hodcivil@amgoi.edu.in</a>, Website: <a href="mailto:www.amgoi.org">www.amgoi.org</a>



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21	Mr. R. A. Pasale	One Week Faculty Development Program on Arduino	400	Rapasale
22	Mrs. S. S. Patil	One Week Faculty Development Program on Arduino	400	Phosale
23	Mrs. D. M. Mali	One Week Faculty Development Program on Arduino	400	Fat]
24	Mrs. A. T. Tare	One Week Faculty Development Program on Arduino	400	Amp
25	Mrs. S. V. Sagavkar	One Week Faculty Development Program on Arduino	400	Sagarkar



Dr. J. M. Shinde Head, Dept. of Civil Engg.

Civil Engineering
AMGOI, Faculty of Engineering
Tailhar Tarf Vadgaon, Tal. hatkanangale, Dist. Kolhapur

# अशोकराव माने ग्रुप ऑफ इन्स्टिट्यूशन्स

फॅकल्टी ऑफ इंजिनिअरींग (बी. ई./एम. ई) / मॅनेजमेंट स्टडीज, वाठार तर्फ वडगांव

## \* व्हींचरं \*

किर्द पान नं.:	खात्याचे नांव :	व्हौचर नं.:		दिनांक: 04/04/2	023
नाव : श्री./श्रीमत	ती/मे. Dr.J. M. Chinde		- रा		यांना
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डायरेक्टर/एक्झीक्युटीव्ह डायरेक्टर

लिपीक/अकौटंट

# अशोकराव माने गुप ऑफ इन्स्टिट्यूशन्स

फॅकल्टी ऑफ इंजिनिअरींग (बी. ई./एम. ई) / मॅनेजमेंट स्टडीज, वाठार तर्फ वडगांव

## \* व्हींचरं \*

किर्द पान नं.:	खात्याचे नांव : 💳	2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014 - 2014	द्	हौचर नं.:		दिनांक : 4/4/202 <sub>4</sub>	
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फॅकल्टी ऑफ इंजिनिअरींग (बी. ई./एम. ई) / मॅनेजमेंट स्टडीज, वाठार तर्फ वडगांव

## \* व्हींचर \*

किर्द पान नं.:	खात्याचे नांव :		व्हौचर नं.:		दिनांक: ७५/०५/	2024
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पस स्वाकारणाऱ्याचा सहा

# अशोकराव माने ग्रुप ऑफ इन्स्टिट्यूशन्स

फॅकल्टी ऑफ इंजिनिअरींग (बी. ई./एम. ई) / मॅनेजमेंट स्टडीज, वाठार तर्फ वडगांव

# \* व्हीचरं \*

किर्द पान नं.:	खात्याचे नांव :	व्हौचर नं.:	दिनांक : 4/4/24
नाव : श्री./श्रीमत	गी/मे. Mm. H.M. Bhosale	रा.	यांना
तपशील :	Dept. of civil Engg.		रक्कम रुपये पैसे
one	week faculty Dow. Progr	ran on	400
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Date	25/03/24 to 30/3/24		,
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लिपीक/अकौटंट

डायरेक्टर/एक्झीक्युटीव्ह डायरेक्टर

# अशोकराव माने युप ऑफ इन्स्टिट्यूशन्स

फॅकल्टी ऑफ इंजिनिअरींग (बी. ई./एम. ई) / मॅनेजमेंट स्टडीज, वाठार तर्फ वडगांव

## \* व्हींचर \*

किर्द पान नं.:	खात्याचे नांव :	व्होचर नं.:	दिनांक: 04/04/20 24
नाव : श्री./श्रीमत	ती/मे. mm. J. A. Pabil	रा.	यांना
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लिपीक/अकौटंट

डायरेक्टर/एक्झीक्युटीव्ह डायरेक्टर

## Ashokrao Mane Group of Institution

Vathar Tarf Vadgaon

**Advance Clearing Form** 

**Department:** Electrical Engineering

Date: 07/05/2024

Advance Taken By: Mr. S.A. Gaikwad

Advance Amount: Rs. 3000

Advance Taken From: Cashier

SUPPORT FOR Financial

Purpose: One Week FDP on "Faculty Development Program on Virtual Instrumentation and

Industry 4.0"

from 08/05/2024 to 13/05/2024, pacticipants

ant Amount	Total
15*200	3000
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Total	3000
Expenditure	
Total	3000
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Prepared Sign

Store/ Dept.Sign

Electrical Engineering AMGOI, Faculty of Engineering

Vathar Tarf Vadgaon, Tal. Hatkanangale, Dist. Kolhapur

Director

Checked By (A/C)

Accountaint



#### Shri Balasaheb Mane Shikshan Prasarak Mandal's

## ASHOKRAO MANE GROUP OF INSTITUTIONS

NH – 4, Vathar Tarf Vadgaon, Tal: -Hatkanangale, Dist: - Kolhapur-416112 Website: www.amgoi.org



#### **Accredited by NAAC**

## **Department of Electrical Engineering**

Date: 13/05/2024

## Department of Electrical Engineering

One Week FDP on "Student Development Program on Virtual Instrumentation and Industry 4.0"

## Financial Assistance by Institution

Sr.No	Name of Faculty	RS	Sign
1	Prof.Mrs.S.H.Shete	200	6111
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2	Dr.V.K.Thombare	200	Minmonse
3	Prof. Mr.D.S.Patil	200	
4	Prof.Mr.K.R.Jadhav	200	K. F. Padh
5	Prof.Mr.A.V.Kumbhar	200	Tembhoo
6	Prof.Mrs.V.Y.Powar	200	N7010N
7	Prof.Mrs.S.A.Shanakardas	200	
9	Prof. Miss.D.D.Ved	200	Ares
10	Prof.Mr.S.A.Gaikwad	200	1 (A)
11	Prof.Mr.R.S.Pukale	200	last
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13	Prof.Mrs. S.V.Sagavkar	200	Say
14	Prof.Mr.A.A.Kumbhar	200	humbhar
15	Dr.C.R.Dongarsane	200	Litar Pajo

# अशोकराव माने गुप ऑफ इन्स्टिट्यूशन्स

फॅकल्टी ऑफ इंजिनिअरींग (बी. ई./एम. ई) / मॅनेजमेंट स्टडीज, वाठार तर्फ वडगांव

किर्द पान नं.:	खात्याचे नांव :	व्हीच	गर नं.:	दिनांक: 13/05/20	عر
नाव : श्री./श्रीम	ाती/मे. िस् ), ऽः	Patil	रा		- यांना
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# अशोकराव माने ग्रुप ऑफ इन्स्टिट्यूशन्स

फॅकल्टी ऑफ इंजिनिअरींग (बी. ई./एम. ई) / मॅनेजमेंट स्टडीज, वाठार तर्फ वडगांव

# \* व्हींचरं \*

किर्द पान नं.:	खात्याचे नांव :=		व्हौचर नं.:		दिनांक: 13/05/	202
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# अशोकराव माने गुप ऑफ इन्स्टिट्यूशन्स

फॅकल्टी ऑफ इंजिनिअरींग (बी. ई./एम. ई) / मॅनेजमेंट स्टडीज, वाठार तर्फ वडगांव

\* व्हींचरं \*

किर्द पान नं.:	खात्याचे नांव :		- व्हीचर नं.:		दिनांक: 13 (05/	0000
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# अशोकराव माने ग्रुप ऑफ इन्स्टिट्यूशन्स

फॅकल्टी ऑफ इंजिनिअरींग (बी. ई./एम. ई) / मॅनेजमेंट स्टडीज, वाठार तर्फ वडगांव

# \* व्हींचरं \*

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फॅकल्टी ऑफ इंजिनिअरींग (बी. ई./एम. ई) / मॅनेजमेंट स्टडीज, वाठार तर्फ वडगांव

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