



# SRI BHARATHI

ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)  
Kaikkurichi, Pudukkottai -622 303

[www.sbec.edu.in](http://www.sbec.edu.in)

## NAAC DOCUMENTS



Quality Indicator Frame Work

Criterion – 3

**Research, Innovations and Extension**

Submitted by

**IQAC**

**Internal Quality Assurance Cell**

**Sri Bharathi Engineering College for Women**



# SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25

Kaikkurichi, Pudukkottai, Tamil Nadu – 622 303, India

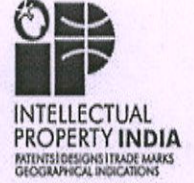
<b>Criteria 3</b>	<b>Research , Innovations and Extension</b>	<b>110</b>
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## Key Indicator 3.2- Innovation Ecosystem

**3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)**

S.No	Title of the Patent Applied	Department	Patent Document No	Page No
1.	AI Based Smart Crop Protection System Against Wild Animals Attack Using CNN Algorithm	Electronics and Communication Engineering	202341043925	3
2.	Novel Agricultural Monitoring System with Matlab Validation Using Arduino Nano	Electrical and Electronics Engineering	202341043929	3
3.	Experimental Analysis on Partial Replacement of Cement by Using Rice Straw Ash	Civil Engineering	202341043936	3
4.	Efficient Management System for Waste Monitoring and Controlling	Electronics and Communication Engineering	202341043926	4
5.	Smart Ventilation System and Health Care Control Using Iot And Big Data Analytics	Electrical and Electronics Engineering	202341043927	4
6.	Interact Computer with Facial Expression for Tetraplegia Users Using Deep Learning	Computer Science and Engineering	202341043931	4
7.	Utilization of Soft Drink Bottle Caps and Palm Fibre in Concrete	Civil Engineering	202341043937	4-5

PATENT OFFICE  
INTELLECTUAL PROPERTY BUILDING  
G.S.T. Road, Guindy, Chennai-600032  
Tel No. (091)(044) 22502081-84 Fax No. 044 22502066  
E-mail : Chennai-patent@nic.in  
Web Site : www.ipindia.gov.in



CHALLAN : TR-5  
DOCKET NO :64675

Date/Time : 30/06/2023 02:06:36

To,  
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN  
PUDUKKOTTAI, TAMILNADU, INDIA 622 303. sribharathiengcollege@gmail.com

Agent Number:

Sr. No.	CBR No.	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid
1	29274	ORDINARY APPLICATION	202341043925	AI BASED SMART CROP PROTECTION SYSTEM AGAINST WILD ANIMALS ATTACK USING CNN ALGORITHM	1750
2		E-2/3124/2023-CHE	202341043925	Form2	0
3		E-3/19409/2023-CHE	202341043925	Form3	0
4		E-5/2865/2023-CHE	202341043925	Form5	0
<b>Total :</b>					<b>1750</b>

Received a sum of Rs. 1750 (Rupees One Thousand Seven Hundred &amp; Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	Union Bank of India	967445	30/06/2023	1750

Note: This is electronically generated receipt hence no signature required.

CHALLAN : TR-5  
DOCKET NO :64681

Date/Time : 30/06/2023 02:06:44

To,  
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN  
PUDUKKOTTAI, TAMILNADU, INDIA 622 303. sribharathiengcollege@gmail.com

Agent Number:

Sr. No.	CBR No.	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid
1	29278	ORDINARY APPLICATION	202341043929	NOVEL AGRICULTURAL MONITORING SYSTEM WITH MATLAB VALIDATION USING ARDUINO NANO	1750
2		E-2/3128/2023-CHE	202341043929	Form2	0
3		E-3/19414/2023-CHE	202341043929	Form3	0
4		E-5/2869/2023-CHE	202341043929	Form5	0
<b>Total :</b>					<b>1750</b>

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Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	Union Bank of India	967448	30/06/2023	1750

Note: This is electronically generated receipt hence no signature required.

CHALLAN : TR-5  
DOCKET NO :64691

Date/Time : 30/06/2023 02:06:22

To,  
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN  
PUDUKKOTTAI, TAMILNADU, INDIA 622 303. sribharathiengcollege@gmail.com

Agent Number:

Sr. No.	CBR No.	Reference Number / Application Type	Application Number	Title/Remarks	Amount Paid
1	29282	ORDINARY APPLICATION	202341043936	EXPERIMENTAL ANALYSIS ON PARTIAL REPLACEMENT OF CEMENT BY USING RICE STRAW ASH	1750
2		E-2/3131/2023-CHE	202341043936	Form2	0
3		E-3/19417/2023-CHE	202341043936	Form3	0
4		E-5/2871/2023-CHE	202341043936	Form5	0
<b>Total :</b>					<b>1750</b>

Received a sum of Rs. 1750 (Rupees One Thousand Seven Hundred &amp; Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	Union Bank of India	967450	30/06/2023	1750

Note: This is electronically generated receipt hence no signature required.

  
Dr. S. THILAGAVATHI M.E., Ph.D.,  
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CHALLAN : TR-5  
DOCKET NO :64677

Date/Time : 30/06/2023 02:06:06

To,  
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN  
PUDUKKOTTAI, TAMILNADU, INDIA 622 303. sribharathienggcollege@gmail.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	29275	ORDINARY APPLICATION	202341043926	EFFICIENT MANAGEMENT SYSTEM FOR WASTE MONITORING AND CONTROLLING	1750
2		E-2/3125/2023-CHE	202341043926	Form2	0
3		E-3/19410/2023-CHE	202341043926	Form3	0
4		E-5/2866/2023-CHE	202341043926	Form5	0
<b>Total :</b>					<b>1750</b>

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Draft	Union Bank of India	967446	30/06/2023	1750

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CHALLAN : TR-5  
DOCKET NO :64680

Date/Time : 30/06/2023 02:06:31

To,  
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN  
PUDUKKOTTAI, TAMILNADU, INDIA 622 303. sribharathienggcollege@gmail.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	29276	ORDINARY APPLICATION	202341043927	SMART VENTILATION SYSTEM AND HEALTH CARE CONTROL USING IOT AND BIG DATA ANALYTICS	1750
2		E-2/3126/2023-CHE	202341043927	Form2	0
3		E-3/19411/2023-CHE	202341043927	Form3	0
4		E-5/2867/2023-CHE	202341043927	Form5	0
<b>Total :</b>					<b>1750</b>

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Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	Union Bank of India	967447	30/06/2023	1750

Note: This is electronically generated receipt hence no signature required.

CHALLAN : TR-5  
DOCKET NO :64687

Date/Time : 30/06/2023 02:06:33

To,  
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN  
PUDUKKOTTAI, TAMILNADU, INDIA 622 303. sribharathienggcollege@gmail.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	29279	ORDINARY APPLICATION	202341043931	INTERACT COMPUTER WITH FACIAL EXPRESSION FOR TETRAPLEGIA USERS USING DEEP LEARNING	1750
2		E-2/3129/2023-CHE	202341043931	Form2	0
3		E-3/19415/2023-CHE	202341043931	Form3	0
4		E-5/2870/2023-CHE	202341043931	Form5	0
<b>Total :</b>					<b>1750</b>

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Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	Union Bank of India	967449	30/06/2023	1750

Note: This is electronically generated receipt hence no signature required.

CHALLAN : TR-5  
DOCKET NO :64696

Date/Time : 30/06/2023 02:06:39

To,  
SRI BHARATHI ENGINEERING COLLEGE FOR WOMEN  
PUDUKKOTTAI, TAMILNADU, INDIA 622 303. sribharathienggcollege@gmail.com

Agent Number:

Sr. No.	CBR No.	Reference Number /Application Type	Application Number	Title/Remarks	Amount Paid
1	29283	ORDINARY APPLICATION	202341043937	UTILIZATION O SOFT DRINK BOTTLE CAPS AND PALM FIBRE IN CONCRETE	1750
2		E-2/3132/2023-CHE	202341043937	Form2	0

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3	E-3/19418/2023-CHE	202341043937	Form3	0
4	E-5/2872/2023-CHE	202341043937	Form5	0
<b>Total :</b>				<b>1750</b>

Received a sum of Rs. 1750 (Rupees One Thousand Seven Hundred & Fifty only) through

Payment Mode	Bank Name	Cheque/Draft Number	Cheque/Draft Date	Amount in Rs
Draft	Union Bank of India	967452	30/06/2023	1750

Note: This is electronically generated receipt hence no signature required.



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