	ТНЕ РА	FORM 28 TENTS ACT, 1970					
		39 of 1970)					
		AND					
		ENTS RULES, 2003					
		TITY /STARTUP/EDUCATIONAL INSTITUTION (fa), 2(fb), 2(ca) and 7]					
1.		e GMR INSTITUTE OF TECHNOLOGY, applicant/					
1.		atentee in respect of the patent application " $\underline{\mathbf{A}}$					
	N	ATURAL FIBRE BASED HIGH STRENGTH					
		OMPOSITE USED FOR SAFETY HELMETS AND ITS					
		<b>ETHOD OF PREPARATION</b> " hereby declare that we					
		re a small entity in accordance with rule 2(fa) or a cartup in accordance with rule 2(fb) or an educational					
		<b>stitution</b> in accordance with rule 2(is) of an outbuilt the					
		llowing document(s) as proof: UGC Notification No. F.					
		2-1/2017(AC) dated 30 <sup>th</sup> May, 2018					
2.	Documents to be submitted						
	i. For claiming the status of a small er	ntity:- N/A					
	A. For an Indian applicant: Evidence of	of registration under the Micro, Small and Medium					
	Enterprises Development Act, 2006(27						
	<ul> <li>B. In case of a foreign entity: Any other document.</li> <li>ii. For claiming the status of a startup- N/A</li> <li>A. For an Indian applicant: Any document as evidence of eligibility, as defined in rule 2(fb).</li> <li>B. In case of a foreign entity: Any other document.</li> </ul>						
	iii. For claiming the status of an edu	acational institution					
		ument as evidence of eligibility, as defined in rule					
	2(ca)	AC) 1.4.1 0041 Nov. 0019					
	UGC Notification No. F. 22-1/2017(. B. In case of a foreign educational inst						
	0						
3.	To be signed by the applicant(s)/	The information provided herein is correct to the best					
	patentee(s)/authorized registered patent agent.	of our knowledge and belief.					
	patent agent.						
		Dated this day of October, 2022					
4.	Name of the natural person who has	Name:- Dr. C L V R S V Prasad					
	signed.	Designation :- Principal					
		Signature & Stamp					
		GMR INSTITUTE OF TECHNOLOGY					
(T) (T)		(APPLICANT) Dr. CLVRSV. Prasad					
	e Controller of Patents, atent Office,	PRINCIPAL GMR Institute of Technology					
	ennai	GMR Nagar Rajam 532127 AP					
	RAJA						
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Controller General of Patents, Designs & Trade Marks

G.A.R.6 [See Rule 22(1)] RECEIPT

Docket No 101726

### To GMR INSTITUTE OF TECHNOLOGY

GMR Nagar, Rajam, Andhra Pradesh-532127, India

#### CBR Detail:

	Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
CRN003	1	202241058948	TEMP/E- 1/67869/2022- CHE	1600	41700	FORM 1	A SYSTEM AND METHOD FOR INSTANTANEOUS COOLING AND HEATING LIQUID
	2	202241058949	TEMP/E- 1/67870/2022- CHE	1600	41700	FORM 1	A NATURAL FIBRE BASED HIGH STRENGTH COMPOSITE USED FOR SAFETY HELMETS AND ITS METHOD OF PREPARATION
	3	E- 106/6112/2022/CHE	202241058948	0		FORM28	
	4	E- 106/6111/2022/CHE	202241058949	0		FORM28	

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No	
N-0001038602	Online Bank Transfer	1510220003204	3200.00	1475001020000001	

Total Amount : ₹ 3200.00

Amount in Words: Rupees Three Thousand Two Hundred Only

Received from GMR INSTITUTE OF TECHNOLOGY the sum of ₹ 3200.00 on account of Payment of fee for above mentioned Application/Forms.

\* This is a computer generated receipt, hecnce no signature required.





Date/Time 2022/10/15 11:10:16





GMR Nagar, Rajam-532127 Vizianagaram (Dist.) Andhra Pradesh CIN U80301AP2003NPL04195 T +91 (8941)251 592/251 593/252 989 F +91 (8941) 251 591 W www.gmrit.org

## **Authorization Letter**

We, "GMR INSTITUTE OF TECHNOLOGY", addressed at GMR Nagar, Rajam, Andhra Pradesh- 532127, India, hereby authorize to our Representatives Dr. Monika Shukla having address IPR Cell, GMRIT, Rajam, to act on our behalf in connection with the filing of Indian Patent Application for titled "A NATURAL FIBRE BASED HIGH STRENGTH COMPOSITE USED FOR SAFETY HELMETS AND ITS METHOD OF PREPARATION", filed in our names, to act jointly or severally as a representative for e-filling and online documents submission on our behalf us as may be required.

I, hereby assent to the action already taken by the said person in the above matter.

Dated ......day of October, 2022

RINST 1000

The Controller of Patents The Patent Office Chennai

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**GMR INSTITUTE OF TECHNOLOGY** 

(Signature and seal)

Dr. CLVRSV Prasad PRINCIPAL **GMR Institute of Technology** GMR Nagar Rajam 532127 AP

A Division of the GMR Varalakshmi Foundation

Application No.       Filing date:         Amount of Fee       paid:         CBR No:       CBR No:         Signature:       Image: Comparison of the appropriate category         Ordinary (\)       Convention ()       PCT-NP ()         Divisional       Patent of       Divisional       Patent of         ()       Addition ()       Ordinary (\)       Convention ()       PCT-NP ()         Divisional       Patent of       Divisional       Patent of       Addition ()         Annount of Fee       Endite (\) at the appropriate category       Addition ()       Addition ()         An PLICANTS       Convention ()       PCT-NP ()       Divisional         Application ()       Ordinary (\)       Contry of       Addition ()       Addition ()         Annount of Fee       Indian       India       Addition ()       Image: Contry of       Addition ()         Annount of Fee       Indian       India       India       Generation ()       Other than Natural Person       State       Andhina Pradesh         Annount of ()       Other than Natural Person       State       Andhra Pradesh       Institute of         Applicant(s) named above?       Yes ()       No (\)       Others ()       Instinstin (')       Others () </th <th><b>"FORM 1</b> THE PATENTS ACT THE PATENTS RULI <b>APPLICATION FOF</b> (See section 7, 54 and rule 20)</th> <th>ES, 2003 R GRANT OI</th> <th>F PATE</th> <th>NT</th> <th></th> <th></th> <th>OR OFFI</th> <th></th> <th>SE ON</th> <th>ILY)</th> <th>2</th>	<b>"FORM 1</b> THE PATENTS ACT THE PATENTS RULI <b>APPLICATION FOF</b> (See section 7, 54 and rule 20)	ES, 2003 R GRANT OI	F PATE	NT			OR OFFI		SE ON	ILY)	2	
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CBR No: Signature:         Signature:         Signature:         Signature:         Ordinary (S)         Convention ()         PCT-NP ()         Divisional         Patent of ()       Addition ()       Patent of ()       Patent of ()       Patent of ()       Addition ()         Addition ()         Addition ()       Patent of ()       Addition ()       Addition ()       Addition ()         Signature:         Ordinary (S)         Convention ()       PCT-NP ()         Divisional ()       Patent of Addition ()       Addition ()       Addition ()         Signature:         Country of Residence         GMR INSTITUTE OF TECHNOLOGY         India       GMR Nagar         Town Rajam         State Andhra Pradesh Country India         Prevon         Small Entity ()       Statup ()       Educational Institution (~)         Atrea all the inventor(s) same as the applicant(s) named above?       Yes ()       No ( $\checkmark$ )         Address of the invent						Amount of F						
Signature:         I. APPLICANT'S REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)         CTYPE OF APPLICATION *Please tick (\formation at the appropriate category         Ordinary (\formatty)         Divisional       Patent of Addition ()       Ordinary (\formatty)       PCT-NP ()         Divisional       Patent of Addition ()       Divisional       Patent of Addition ()       Addition ()         34. APPLICANT(S)         Name in Full       Nationality       Country of Residence       Address of the Applicant         GMR INSTITUTE OF TECHNOLOGY       India       India       GMR Nagar         Matural Person ()       Other than Natural Person       State       Andhra Pradesh         Country ()       Institution (/)       Institution (/)       Others ()         Artural Person ()         Other than Natural Person       Institution (/)         Small Entity ()       Startup ()       Educational Institution (/)       Others ()         Address of the Inventor         Annuepu LAKSHUMU       No (\formatty /)       Residence       No (\formatty /)         NAIDU       Nationality       Country of Residence       Address of the Inventor         Residence       India       India       Depa						pai	d:					
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IDENTIFICATION NO. (AS ALLOTTED BY         OFFICE)         2. TYPE OF APPLICATION *Please tick (\s) at the appropriate category         Ordinary (\s)       Convention ()       PCT-NP ()         Divisional       Patent of       Divisional       Patent of         Addition ()       Addition ()       ()       Addition ()       ()         3A. APPLICANT(S)       Nationality       Country of       Residence       Address of the Applicant         GMR INSTITUTE OF       India       India       GMR Nagar       Town       Rajam         TECHNOLOGY       India       India       GMR Nagar       Town       Rajam         State       Andhra Pradesh       Country of       Residence       State       Andhra Pradesh         Country       India       Statup ()       Educational       Others ()       India         Natural Person ()       Other than Natural Person       Statup ()       Educational       Others ()         Are all the inventor(s) same as the appropriate category]       No (\screwssof the Inventor       Prescenseries       Institution (\screwssof the Inventor         Are all the inventor(s) same as the applicant(s) and above?       India       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>Sig</td> <td>nature:</td> <td></td> <td></td> <td></td> <td></td>						Sig	nature:					
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TECHNOLOGY     Town     Rajam       TECHNOLOGY     State     Andhra Pradesh       Country     India       Pin code     532127       3B. CATEGORY OF APPLICANT [Please tick (√) at the appropriate category]     State     Andhra Pradesh       Natural Person ()     Other than Natural Person     Educational Institution (✓)     Others ()       4. INVENTOR(S) [Please tick (√) at the appropriate category]     Startup ()     Educational Institution (✓)     Others ()       4. INVENTOR(S) [Please tick (√) at the appropriate category]     No (√)     Others ()     Institution (✓)       Are all the inventor(s) same as the applicant(s) named above?     Yes ()     No (√)     No (√)       If "No", furnish the details of the inventor(s)     Indian     India     Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar       ANNEPU LAKSHUMU NAIDU     Nationality     Country of Residence     Andhra Pradesh       NAIDU     Nationality     Country of Residence     State     Andhra Pradesh       PRASAD     Nationality     Country of Residence     Address of the Inventor       PRASAD     Indian     India     India     Pin code     532127       PRASAD     Indian     India     Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar       S V     Nationality     Country of Resid	CMD INSTITU	TE OF	Indian			Ind	ia	G	MR Na	igar		
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BIL CATEGORY OF APPLICANT [Please tick (√) at the appropriate category]       Pin code       532127         3B. CATEGORY OF APPLICANT [Please tick (√) at the appropriate category]       Other than Natural Person       Other than Natural Person         Small Entity ()       Startup ()       Educational Institution (✓)       Others ()         4. INVENTOR(S) [Please tick (√) at the appropriate category]       Are all the inventor(s) same as the applicant(s) named above?       Yes ()       No (√)         If "No", furnish the details of the inventor(s)       Nationality       Country of Residence       Address of the Inventor         ANNEPU LAKSHUMU NAIDU       Nationality       Country of Residence       Address of the Inventor         Indian       India       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar         PRASAD CHILAMKURTI L V R       Nationality       Country of Residence       Address of the Inventor         Indian       India       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar         PRASAD CHILAMKURTI L V R       India       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar	TECHNOLOG	Y						St	ate		Andhra Pradesh	
3B. CATEGORY OF APPLICANT [Please tick (√) at the appropriate category]         Natural Person ()       Other than Natural Person       Others ()         Matural Person ()       Startup ()       Startup ()       Educational Institution (✓)       Others ()         4. INVENTOR(S) [Please tick (√) at the appropriate category]       Are all the inventor(s) same as the applicant(s) named above?       Yes ()       No (√)         If "No", furnish the details of the inventor(s)       Nationality       Country of Residence       Address of the Inventor         ANNEPU LAKSHUMU NAIDU       Nationality       Country of Residence       Address of the Inventor       Mationality         NAIDU       Nationality       Country of Residence       Address of the Inventor       GMR Institute of Technology, GMR Nagar         PRASAD       Nationality       Country of Residence       Mationality       Country of Residence       Address of the Inventor         PRASAD       Nationality       Country of Residence       Mationality       Country of Residence       Address of the Inventor         PRASAD       Indian       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar         S V       Nationality       Country of Residence       Address of the Inventor								C	ountry		India	
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Small Entity ()       Startup ()       Educational Institution (✓)       Others ()         4. INVENTOR(S) [Please tick (√) at the appropriate category]       Are all the inventor(s) same as the applicant(s) named above?       Yes ()       No (√)         If "No", furnish the details of the inventor(s)       Yes ()       No (√)       Inventor         Mationality       Country of Residence       Address of the Inventor       Mechanical Engineering, GMR Institute of Technology, GMR Nagar         NAIDU       Indian       India       India       Department of State       Mechanical Engineering, GMR Institute of Technology, GMR Nagar         PRASAD CHILAMKURTI L V R S V       Nationality       Country of Residence       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar												
Are all the inventor(s) same as the applicant(s) named above?       Yes ()       No (√)         If "No", furnish the details of the inventor(s)       Indianality       Country of Residence       Address of the Inventor         ANNEPU LAKSHUMU NAIDU       India       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar         NAIDU       India       India       State       Andhra Pradesh         Country of Residence       Nationality       Country of Residence       State       Andhra Pradesh         Nationality       Country of Residence       State       Andhra Pradesh       Country       India         PRASAD       India       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar       State       Andhra Pradesh         Childianality       Country of Residence       Address of the Inventor       State       Andhra Pradesh         Indianality       Country of Residence       Address of the Inventor       State       Andhra Pradesh         Country of Residence       Indianality       Country of Residence       Address of the Inventor       State         S V       Indianality       Country of Residence       Address of the Inventor       Engineering, GMR Institute of Technology, GMR Nagar         S V       India       India       Dep			Small E	ntity (	()	St	artup ( )					
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If "No", furnish the details of the inventor(s)       Nationality       Country of Residence       Address of the Inventor         ANNEPULAKSHUMU       India       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar         NAIDU       India       India       Town       Rajam         State       Andhra Pradesh       Country of Residence       State       Andhra Pradesh         India       Nationality       Country of Residence       Fin code       532127         Indian       India       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar         Indian       Indian       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar         PRASAD       Indian       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar         S V       Indian       India       Department of Mechanical Engineering, GMR Institute of Technology, GMR Nagar	Are all the inventor(s)	same as the							No (	√)		
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5. TITLE C	F THE INVENTION	ON							
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AGENT(S)					Name			N/A	
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7. ADDRES	SS FOR SERVICE	OF APPLI	[CAN]	Г	Name	e		GMF TEC	R INSTITUTE OI HNOLOGY
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#### **12. DECLARATIONS**

#### (i) Declaration by the inventor(s)

(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

I/We, the above named inventor(s) is/are the true & first inventor(s) for this Invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

S. No.	Name	Signature	Date
1.	ANNEPU LAKSHUMU NAIDU	"Arid."	- 13-10-22
2.	PRASAD CHILAMKURTI L V R S V	1 frontes	- 13.10.22
3.	VELAMALA RAMBABU	V. K-carde la	12-10-22
4.	MAKKA JAYAKRISHNA	M. Jayakrishna	13-10-22

# (ii) Declaration by the applicant(s) in the convention country

(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period) I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date

(b) Signature(s)

(c) Name(s) of the signatory:

(iii) Declaration by the applicant(s)

I/We the applicant(s) hereby declare(s) that: -

 $(\sqrt{)}$  I am/ We are in possession of the above-mentioned invention.

 $(\sqrt{)}$  The provisional/complete specification relating to the invention is filed with this application.

(×) The invention as disclosed in the specification uses the biological material from India and the necessary

permission from the competent authority shall be submitted by me/us before the grant of patent to me/us.

 $(\sqrt{)}$  There is no lawful ground of objection(s) to the grant of the Patent to me/us.

 $(\sqrt{)}$  I am/we are the true & first inventor(s).

 $(\sqrt{)}$  I am/we are the assignee or legal representative of true & first inventor(s).

(×) The application or each of the applications, particulars of which are given in Paragraph-8, was the first application in convention country/countries in respect of my/our invention(s).

(×) I/We claim the priority from the above mentioned application(s) filed in convention country/countries and state that no application for protection in respect of the invention had been made in a convention

country before that date by me/us or by any person from which I/We derive the title.

(×)My/our application in India is based on international application under Patent

Cooperation Treaty (PCT) as mentioned in Paragraph-9.

(×)The application is divided out of my /our application particulars of which is given in

Paragraph-10 and pray that this application may be treated as deemed to have been

filed on-DD/MM/YYYY under section 16 of the Act.

(×) The said invention is an improvement in or modification of the invention particulars of which are given in Paragraph-11.

# 13. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION (a) Form 2 Item Details Fee Remarks

Provisional specification)#	No. of pages:	1600	For 14 pages
No. of Claim(s)	No. of claims:		Claims 00
	No. of pages .:		Pages 00
Abstract	No. of pages .:		01
No. of Drawing(s)	No. of drawings:		Figures 01
500	No. of pages		Pages 01
provisional specification as th 13(4), the number of such pag	e drawings or part of es filed with the provi	the drawings sional specifi	es to adopt the drawings filed with his s for the complete specification under rule ication are required to be mentioned here.
International Preliminary Exam (c) Sequence listing in electron (d) Drawings (in conformation	nination Authority (IF <del>nic form</del> 1 with the internationa	PEA), as appl <del>1 application)</del>	)/as amended before the
International Preliminary Exa			
(e) Priority document(s) or a r	equest to retrieve the p	priority docur	ment(s) from DAS (Digital Access
Service) if the applicant had a		ffice of first f	filing to make the priority
document(s) available to DAS	-		
(f) Translation of priority docu		ternational S	earch-Report/International
Preliminary Report on Patenta			
(g) Statement and Undertaking			
(h) Declaration of Inventorshi	p on Form 5		
(i) Power of Authority			
(J) Form-28			
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I/We hereby declare that to t slated herein are correct and I/	the best of my/our kr We request that a pate	nowledge, int ent may be gr	formation and belief the fact and matters anted tome/us for the said invention.
Datedth day of Octo	ober, 2022		

noeso 1

GMR INSTITUTE OF TECHNOLOGY (Applicant) Dr. CLVRSV Prasad PRINCIPAL

To, **GMR Institute of Technology** The Controller GMRaMantar Rajam 532127 AP The Patent Office, at Chennai Note: -

2 IN, NOTOR

\* Repeat boxes in case of more than one entry.
\* To be signed by the applicant(s) or by authorized registered patent agent otherwise where mentioned.

\* Tick  $(\sqrt{)}/cross(x)$  whichever is applicable/not applicable in declaration in paragraph-12.

\* Name of the inventor and applicant should be given in full, family name in the beginning.

\* Strike out the portion which is/are not applicable.

\* For fee: See First Schedule";