Start-up Details

UDYAM REGISTRATION NUMBER - UDYAM-TN-08-0014853 REGISTRATION OF ENTERPRISE – 19/01/2020 DATE OF UDYAM REGISTRATION – 24/02/2021

SOLARIS INDIA POWER SOLUTION

SIVA CHANDRAN S PROPRETOR



எவ்வ துறைவது உலகம் உலகத்தோடு அவ்வ துறைவ தறிவு.

உலக இயக்கம் எப்படி என்று அறிந்து அதற்க்கு ஏற்றார்ப் போல் உலகத்துடன் இணக்குவது அறிவு.

VISION

MISSION

To be a profitable high quality solar & Electric bike manufacturer, deliver value to our customers and create a company that can attract, recruit and retain smart and talented employees Imagine a world where refueling of fossil fuels are no longer needed. Imagine a world driven by clean Energy.

QUALITY POLICY

To manufacture High Precision and High quality products which replaces the conventional, at less prices and less time

ABOUT START-UP

- *We introduce ourselves as one of the reputed manufacturers, promoters and system integrators Off Grid & Grid Tie Solar Power plants / Products.
- *We also manufacture and promote Electric Vehicles with aesthetic appearance for goods delivery and personal use.
- *We have also associated with Day Star Solar and Pharshnya Power Solution for the for Design, Manufacture, Supply, Installation at site of Solar PV Plant & Equipment for capacities 1 KW to 25 KW of Grid Tie & Off Grid Type.

Partner :- T. Dhinesh / Alumni / Sairam Institution

SWOT – SOAR ANALYSIS

STRENGTH

- Potential Market
- Eco- friendly
- Low running and maintenance

ASPIRATIONS

- R & D
- Rs. 100 Crore in 15 years

WEAKNESS

- Needs time to recharge
- Limited range
- Lack of recharging infrastructure



RESULTS

- Reduction in losses with high efficiency
- Customer Satisfaction
- High on safety

OPPORTUNITIES

- Innovative Technology
- Continuous Demand

THREATS

- Downfall of IC engines
- Advancements in3D printing

S INDIA POWER SOLUTIO

Chief Executive Officer Chief Business Officer





President - HR







President, Marketing Chief Purchase Head Chief Operations Officer Chief Customer Officer









OUR PRODUCTS

- * Solar On-Grid System
- * Solar Off-Grid System
- * Solar Pumping System (Agriculture / Domestic)
- *Design of Solar Plant/ <u>Shading Analysis</u> (Software Solutions)
- *Retrofitted Bicycle
- *Retrofitted TVS- XL
- *Retrofitted Bike (With Gear)







https://same be-tuil: Bat Hall Bat Hall Ba	Project	🛨 be	w 📂 Load 💾 Save 🛛 🏚 Project settings 🗎	🖺 Deleta 👗 Gient	G)
Ale fais And, Yellis III Proven L (1992) pais Welling The Welling The Control of Contr	Project's name	Siva Trail 1	Client n	ame Bharath Bala		
Arlant	ite file /	Vad_MN80_S11.MET	Meteonom 8.0 (1996-2015) Meteonom 8.0 (1996-2015)	anda Synthe5c 0.1		
Arriant			Simulation done (version 7.2.2, date 15/05/21)			
Artende and Team and Artende a	Variant	* 9	nv 💾 Save 🖌 Import ᡝ Reorder 🕅	Delete	6	>
Ne protection Ne pro	Variant nº VCO	: New simulation variant		Results overview		
Bitter Bitter Stadge Mandad yn Action Als Unbloglogy Bitter Bitter Stadge Bitter Stadge Mandad yn Action Als Unbloglogy Bitter Bitter Stadge Bitter Stadge Dialacticus Di				System kind	No 3D scene defined, no shadings	
Soff-creanyton By programment Soft-creanyton	Main parameters	Optional (iii) Horizon	Simulation	System kind System Production Specific production Performance Ratio	No 3D scene defined, no shadings 4488 kV/h/yr 1516 kV/h/kV/p/yr 0.803	
	Main parameters Crientation System Detailed losses	Costonal (e) Horizon (e) Hear Shedrigs (e) Module Inyout	Simulation Ran Simulation Q Advanced Sinul.	System kind System Production Specific production Performance Ratio Normalized production Array losses System losses	Ro 3D scree defined, no shadings 4468 kt/h/m 1316 kt/h/m/m 0.803 4.15 kt/h/doty/or 0.84 kt/h/doty/doy 0.84 kt/h/doty/doy	



OUR PROJECTS

- *1 KW On-Grid system Installed at Somangalam Police station.
- *Retrofitted a bicycle into Electric Bicycle.
- *Retrofitted petrol TVS XL bike into Electric Bike.
- *Retrofitted petrol bike into Electric Bike with gear system.
- *We are in the Final stage of our own Electric Scooter



							1 mm	
1/13/2020	/3/2020:Duplicate CBR Print of Date:			 Page 12-104 Physical Action Systems From Table 	- 0			
PATENT O INTELLECT G.S.T. Ruad, Tel No. (1993 E-mail : Che Web Site : 1 CHALLAT DOCKET To,	FFICE UAL PROPERTY Guindy, Chemai (c44) 22562084 (c44) 22562084 (c44) 22562084 (c44) 22562084 (c44) 2256208 (c44) 2256208 (c44) 225620 (c44) 225620 (c45) 2256200 (c45) 2256200 (c45) 2256200 (c45) 2256200 (c45) 2256200 (c45) 2256200 (c45) 2	BUILDING 600 32 47 Ext No. 044 22512065 in 1		UNIT AND GOVERNMENT OF IND	A	NTELLECTUAL PROFERTY INDIA teosperey locitions ⁴ Date Time : 12112020 Agent Number:	The Indexpology Arget Keng Langue Loose Hip If Reference Proyed 2.2 Tryst Energy and Index If Arget Ar	
S. SIVA C DEPARTI WEST TA	HANDRAN Ient of Meci Mbaram, Chi	HANICAL ENGINEERI Ennal - 600044. sivaci	VG, SRI SAI RA handran191@g	AM ENGINEERING COLLEGI Imail.com	, SAI LEO NAGAR,			
Sr. No.	CBR No.	Reference Number /Application Type		Application Number	Title/Remarks	Amount Paid	Instantiation	
1	38252	ORDINARY APPLICAT	ION	202041049411	GEARED ELECTRIC BIKE	1750	f lexhadi 🕖	
2		E-2/3337/2020-CHE		202041049411	Form2	0	ComPage ComPage ComPage Hard	(\$FL)
3		E-3/34809/2020-CHE		202041049411	Form3	0	A period 1	
4		E-5/3102/2020-CHE		202041049411	Formő	0	EPIC Residentiá system at Genera Q FAQ.	(Video tutoriais
5	38252	E-12/3134/2020-CHE		202041049411	Form9	2750	100 traingroject at levile	
6	38252	R20204035624		202041049411	Form18	4400	数 s Te contextual into its available with by typing P D.	in the whole software
Total :						8900	# so tal 2 There are also may performant 2	suttre fa nove
Received	a sum of Rs. 8	1900 (Rupees Eight Th	ousand Nine H	lundred only) through			Part 10 1001	
Payment	Mode	Bank Name	Cheque/Dr	aft Number	Cheque/Draft Date	Amount in Rs		
Cash		-	-		-	8900	risis se mages	
Note: Thi	s is electronica	illy generated receipt	hence no signa	ature required.			Clamity-Charlow Store	†‡ setch
								Đất

Retrofitted Bike

E - Cycle

Patent Published Design Software

Retrofitting is nothing more than the addition of new technology or features to older systems in order to improve efficiency, add more functionalities or be compatible with the latest environmental demands.

DIFFERENT VIEWS



REAR





LEFT SIDE



RIGHT SIDE

CAE ANALYSIS

- We have selected the frame tube size as 25.4 mm with the thickness of 1.65 mm. We performed analysis for the selected frame tube size by using CAE software (ANSYS).
- On stress analysis by checking the factor of safety for the frame we designed with the tube size of 25.4 mm of OD and 1.65 mm of thickness we found the factor of safety as > 5.
- Hence our design is safe and the tube size we selected was also safe. Here we have included simulated image of the frame.



OUR CUSTOMERS

*Mr. T. Murugaiyan, Director, Ultramax Hydrojet Private Limited, Thirumudivakkam, Chennai – 602109.

*Mechanically Operated Semi-Automatic Gate – Mr. Naresh Raj, CIO, Sairam Institution, Chennai.

*Electric Bicycle – Mr. S.V. Manikandan, Manager, HCL Technologies.

Ξ	M Gmail		٩	olaris india power solution	Х	٠	• Active • 🖉 🔅	111 111 111	S	I RAM	A
* Mail		1	÷						<	>	۵
۵	Inbox	20									
\$	Starred			solar panel erection (Energe)					0	ß	0
0	Snoozed			Murunaiyan Thiruwengadam (muru/97) Bomail com-			C Fil. May 7, 419 PM	4	6	Ŧ	
₽	Sent		÷	to me, arvind +				~		î.	Ø
D	Drafts	138		Dear Sir, Lianswith attraction remarks latter responsion "Selar on Grid Sustern" elasses on through	,						A
	AMCAT REPORT			u pour anania ludar hidra prese la branda one ar our distan these in modu	<u></u>						1
• Chal		+		Regards, T. Muruqaiyan							
R	Dr.R. Ashok Gandhi Yoz 🎒										
1	RANJITH KUMAR V You'H			n man m							
()	Group: AKASH V SEC AKASH V: voltage compa	ny L		turner and the second s							
				SOLAR LETTER docx							

Order Received from Mr. T. Murugaiyan

	From	18.03.2021
T MIRIKGAIVAN	S.V. MANIKANDAN	Chennai
Director	358, Subash nagar, Mudichur road	
Ultramax Hydrjet Private Limited	Chennai-45	
To	To .	
The Principal	The Drinsing	
Sri Sai Ram Engineering College	ine enincipal	
Chennai	Sri Sai Ram Engineering College	
	Chennai	
Sub: Solar System Erection for Domestic Purpose.		
Respected Sir,	Sub: Conversion of pedal powered bicycle into Electric bicycle.	
I am delighted to request your acceptance for our project proposal regarding "Solar on Grid System" on my property.	Respected Sir,	
Address:	I am delighted to request your acceptance for our project proposal regarding "E-bicycle	e conversion".
MURUMADI ILLAM,	Address:	
Plot no:30, Dr. Abdul Kalam road II cross street, Tellus avenue phase-II, Rajakilpakkam, Chennai- 600073"	SWARNAVALLI ILLAM, Plot no: 358, Subash nagar, Mudichur road, Near Bajaj showroo 600045"	m, Chennai-
I am providing this opportunity to your college startup named Solaris India Power Solution owned by Mr.S.Siva Chandran & Team (Udyam - TN-08-0014653) in collaboration with Daystar Solar Private Limited Chennai. I request you to provide a team for the successful completion of this project with materials and technical support. I am providing Rs.2 Lish's for the completion and erection of the project in my house. I am awaiting your positive reply at the soonest.	I am providing this opportunity to your college startup named Solaris India Power Solu Mr.S.Siva Chandran & Team (Udyam - TN-08-0014853). I request you to provide a successful completion of this project with materials and technical support. I am prov for the conversion of my E-bicycle. I am awaiting your positive reply at the soonest.	tion owned by team for the riding Rs.6,500
Regards,	Y	ours faithfully,
T. Murugaiyan	5.1	/. Manikandan
9444921133	Email:manikandan	sv@ymail.com
8825835127	Mobile:971020141	4,8610514916

IN COLLABORATION

* SRI SAIRAM ENGINEERING COLLEGE * DAYSTAR SOLAR * PARSHANYA POWER SOLUTIONS * GEETEE TECH.

PRODUCT TESTING



- Electric Bicycle final testing report
- Max. Speed :- 24 Km/h
- Avg. Speed :- 17.5 Km/h
- **Range** :- **41 Km** (single charge without peddling)
- Running time :- 2 hours

Cycle Testing Data

- Electric Scooter final testing report
- Max. Speed :- 52 Km/h
- Avg. Speed :- 26.7 Km/h
- Range :- 65 Km
- Running time :- 1 hours 50 min.

Scooter Testing Data

MARKETING STRATEGY

- ✓ Cause Marketing
- ✓ Diversity Marketing
- ✓ Relationship

Marketing



- Iconic Advertisements at Renewable & Automobile Summits all over the world.
- Discounts to Initial Orders
- Achieving trust among Customers
- ✤ Lower cost without compromise in quality.



COMPANY TURN OVER

Sl. No	Particulars	Amount (Rs.)
1	1 Kw Solar Plant	15,000.00
2	Electric Bicycle	6,500.00
3	Electric TVS XL	20,000.00
4	Automatic Gate	6,000.00
5	3 KW Solar System	22,000.00
	Total	69,500.00

CONTACT US

*Reg.Off.:

Department of Mechanical Engineering,

Sri Sairam Engineering College,

Sai Leo Nagar, West Tambaram,

Chennai – 44,

Tamil Nadu.



Mobile Number :- +91 87787 11187 & 95788 92485 Mail ID:- <u>sivachandran091@gmail.com</u> Facebook:- <u>https://www.facebook.com/profile.php?id=100069619682836</u> LinkedIn:- <u>https://www.linkedin.com/feed/</u>



THANK YOU