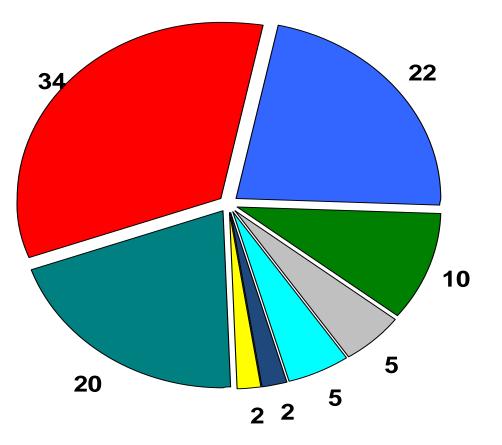




## Introduction to TVS Motor Company







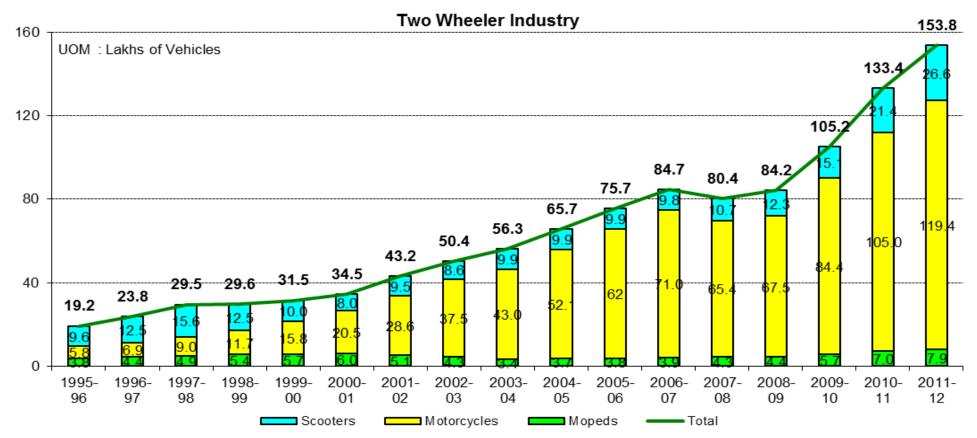
🗖 China 🗖 India 🔳 Indonesia 🔲 Vietnam 🗖 Brazil 🔳 Thailand 🗖 Argentina 🔳 Others

World Market is 67 Million two wheelers India is no. 2 two wheeler market in the world









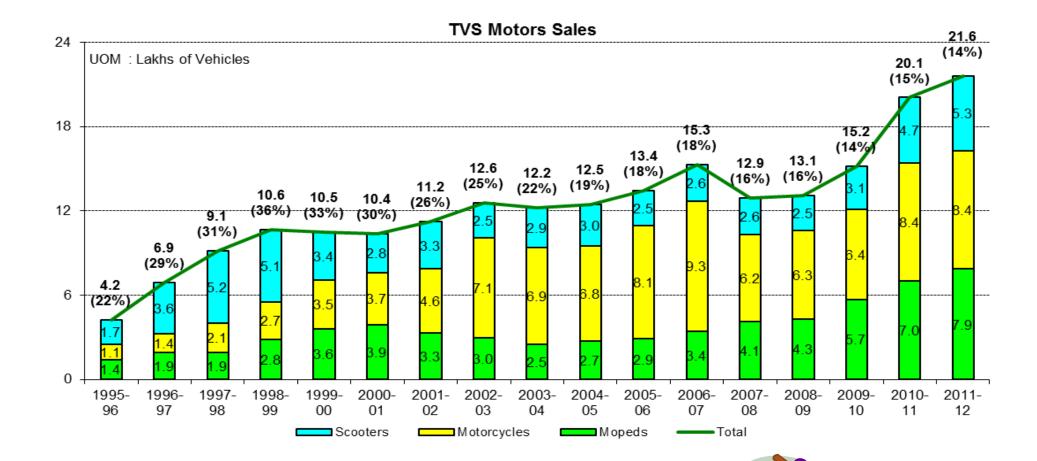
Motorcycles have grown to 79%











#### Motorcycles have grown to 79%

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#### **TVS Family...**









## 1911

The foundations for the TVS Group was laid by Shri. T. V. Sundaram Iyengar the visionary who led the world with the ideals of Trust, Value & Service

#### 100 years...moving lives...moving India

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- Over 30 companies employing a work- force of 40,000 people
- The largest automotive components manufacturer in India – Turnover of USD 5 billion
- Driving success through our core values of
  - ✓ Trust
  - ✓ Value
  - Exactness
  - ✓ Passion for Customers
- TVS Motor Company the largest company of the group in terms of size and a turnover of USD 1.5 Billion in 2010-11



Shri Venu Srinivasan CMD - TVS Motor Company Ltd.





#### Many firsts . . .

Indian manufacturer to win the coveted Deming Award to introduce auto-clutch technology in a motorcycle in India to deploy a catalytic converter in a 100 cc motorcycle to indigenously manufacture a 4-stroke 150 cc motorcycle to bring out innovative concepts like 99 colours and balancing wheels

#### The biggest roll out in Indian automotive history....

#### 2007 - Seven new products rolled out on a single day

- ✓ 3-wheeler in 3 variants 2 stroke, petrol, LPG and CNG
- ✓ Scooty Teenz Electric an Electric Scooter
- ✓ 110 cc StaR City
- ✓ 3-Valve CCVTi Engine 4 Stroke, 4 geared 125cc FLAME
- ✓ Apache RTR with Electronic Fuel Injection in 160 cc category





#### Leadership:

JRD Tata Corporate Leadership Award - 2004

Star of Asia Award

Engineering:

The Deming Prize

- TS16949 Quality certification
- Technology Award 2002

ISO 14001 & OSHAS 18001 certification

Progressive Manufacturer 100 Award (TRU4)

**TPM Excellence Award 2008** 

Management:

- Most Investor friendly company
- SAP ACE AWARD 2007
- TEAM TECH 2007 Award



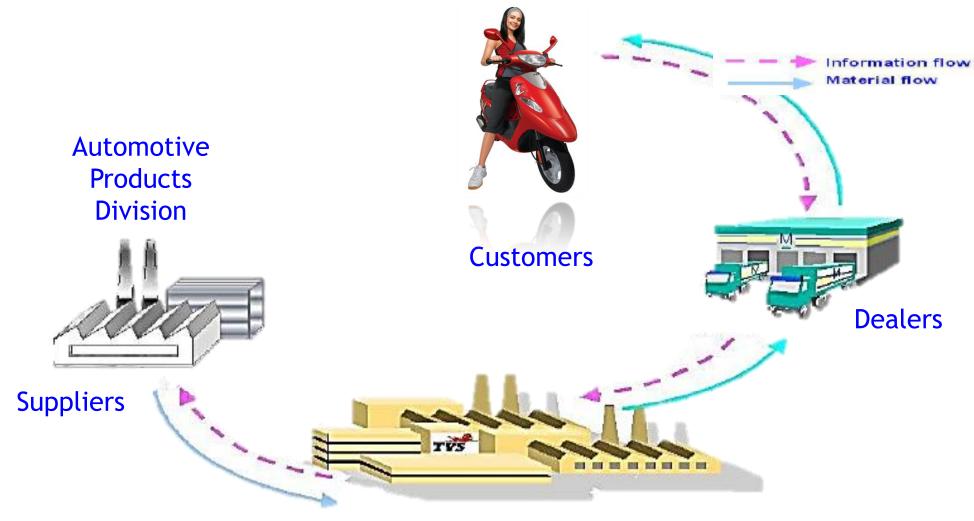






#### The Value Chain & our business...





**TVS Motor Company** 

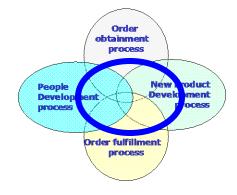
TVS

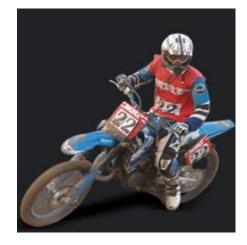
**TVS New Product Development Process** 

- More than 450 engineers in Product Development
- Over 85 specialists with Post Graduate & Doctorate qualification
- Consultancy arrangement with leading professors from reputed
- universities and research labs like AVL, Ricardo, LTC, TNO
- Dedicated team of 10 racing experts
- Participation in National Championship Rallies, Moto Cross, Road

Racing, Dirt track racing, Drag racing...

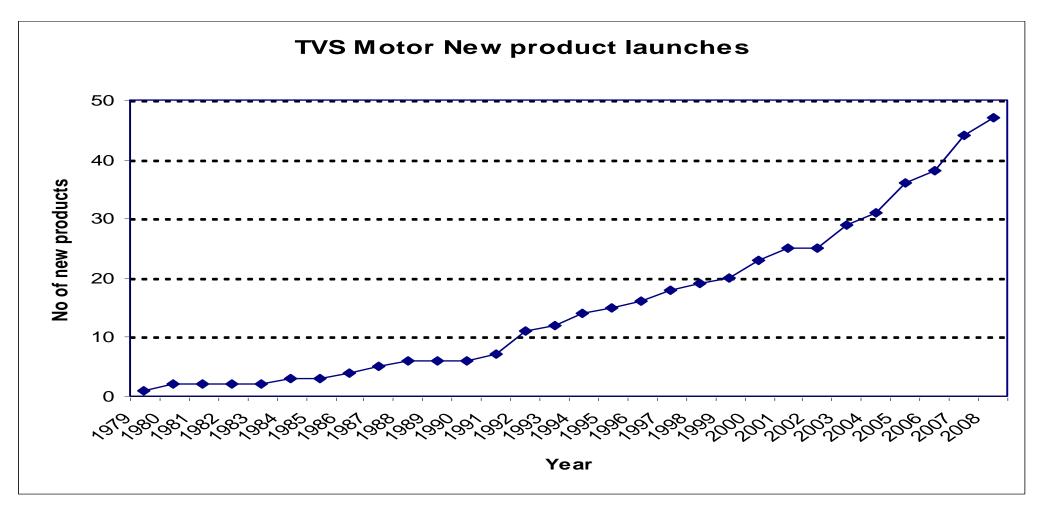
• Won 90% of races participated











First 22 products in 22 years (1979 - 2000) Second 33 products in 11 years (2000-2011)

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TVS



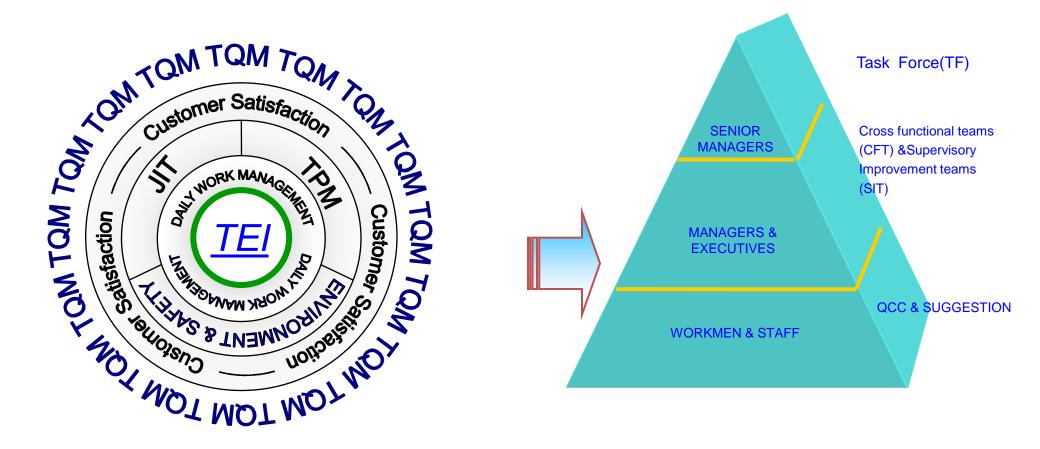
#### **TVS Motor products...**





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TEI (Total Employee Involvement ) forms the core of all initiative In TEI QCC & suggestion are the foundation

TVS







Parivartan Sustainability 18-Oct-12





# "Shaping Sustainability interventions in Manufacturing Facilities"





**Sustainability** is a business approach that creates longterm stakeholder value managing risks and embracing opportunities through optimisation of the economic, environmental and social bottom lines.

**Green manufacturing** deals with maintaining sustainability's environmental, economical and social objectives in the manufacturing domain.

**Green manufacturing** was coined to reflect new manufacturing paradigm that employs strategies and techniques to become more eco-efficient.

**Sustainability** is a concept & **Green manufacturing** is a methodology.



#### Introduction

Outputs-1 (Intended)











### Material









#### Outputs-2 (Un-intended)







## Emissions





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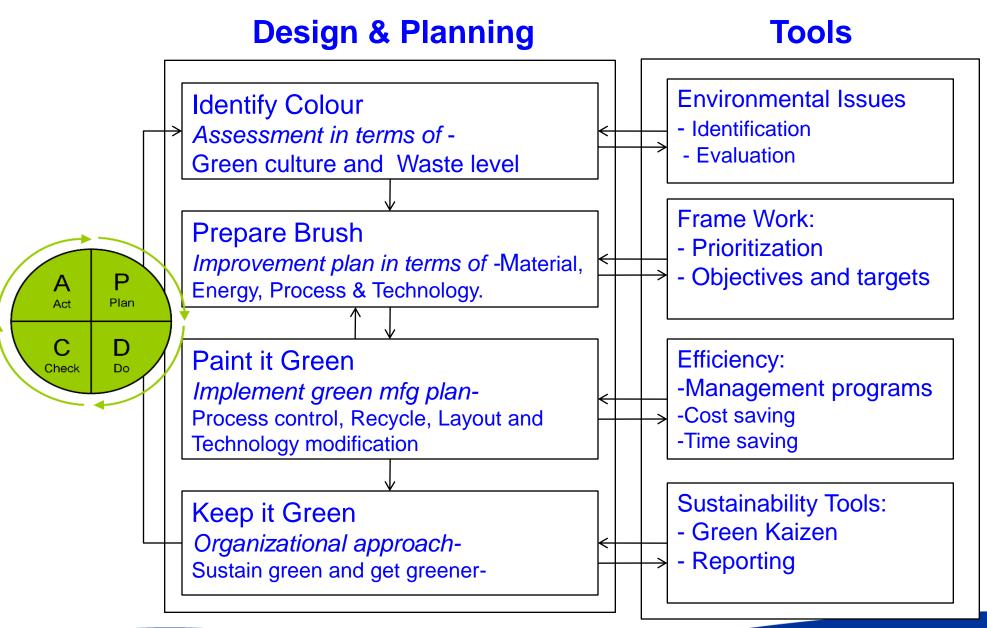
### **Green Manufacturing Strategies include....**

- Creating products and systems that consumes less Resource (e.g., energy, material and water)
- Substituting input materials (e.g., non-toxic for toxic, renewable for non-renewable),
- Reducing unintended outputs and converting output into inputs (recycling).



#### **System Model for Green Manufacturing**









#### We believe that...

18-Oct-12

- Water and sustainable development are inextricably linked
- Water, today defines human, social and economic developments
- Without adequate supplies and management of fresh water, Socio economic development simply cannot take place.

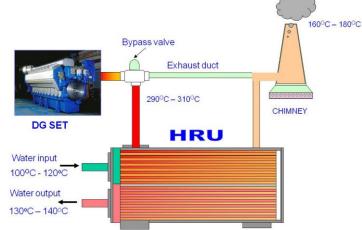




#### **TVS** Need of the hour...

#### **Energy Conservation**







Day light harvester



**150W Induction lamps** 

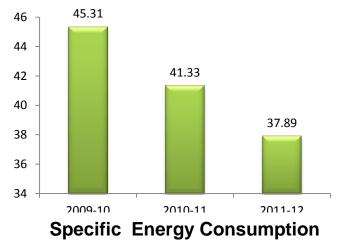
Heat Recovery unit at Captive Power Plant





LED street Lights

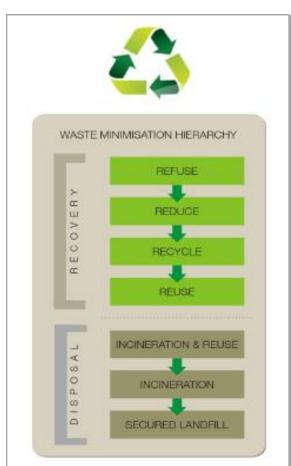
UOM: KWH/Vehicle



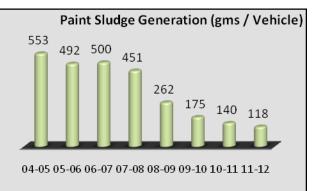




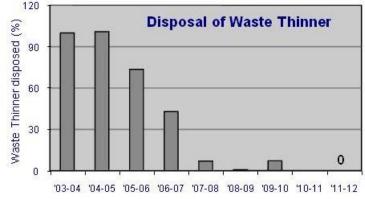
- Electro Deposition & Powder coating have been adopted in painting
- Six axis Robot for painting
- Paint transfer efficiency improvements- a continuous process
- Recycling of Waste Thinner















- Paint sludge generated is used for co-generation in cement kiln
- Plating metal sludge is recycled in association with M/s. World Resource company Germany
- ETP sludge will be used as Raw material in Cement manufacturing.
- Used coolant is recycled using Photo Chemical Reactors.







- Garden wastes are converted into manure by vermi-composting
- Canteen waste is composted with EM (Effective Micro-organisms) and part converted into Bio-gas
- These manures are used for gardening and aforestation activities







Inauguration of Demonstration Centre

• Environmental concerns, depletion of natural resources and regulatory pressures have resulted in recycling of engineering goods. End-life-Vehicle (ELV) recycling of automobiles is a well established practice in US, Europe & Japan.

• TVSM through engagement with Society for Indian manufacturers, have been educating peer and government authorities on the opportunities.

• A demonstration center was set at Global Automotive Research Center (GARC), Oragadam, near Chennai on 2nd August 2011

#### Patent for Conversion of Paint Sludge

A Patent has been granted for a process for the conversion of waste paint sludge into compost suitable for soil enrichment through micro-biological degradation

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#### **Product Stewardship**





RECYCLABLE MATERIALS Material use (Substitution); Reduce toxic materials; Waste (Reduction in waste generation)



zinc plating

Parivartan Sustainability 18-Oct-12







**Demo of Renewable Energy** 



Plantation by school children



Lecture on Environment



Plantation by school children



Source segregation of waste



**Bird watch** 







**Distribution of saplings** 



Inauguration of tree bank



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TVSM believes that business will grow only when the community is wealthy, healthy, educated and empowered.

TVSM has a separate organization viz., 'Srinivasan Services Trust' for carrying out its CSR activities. These are supervised and guided by the Chairman of Srinivasan Services Trust. He is assisted by a 154-member team of engineers, agriculturists, conservation experts, social workers.

Over the past 16 years, Srinivasan Services Trust (SST) has made effort to bring a change in the lives of the people in rural India by creating self reliant models of sustainable development.

SST's work area has increased from 2 villages in 1996 to 1056 villages in 2012. Community takes ownership of the development effort. Government recognizes the effort of SST and the community.



#### **Social Activities**



Value Addition in Honey Collection in Javadhu Hills



Turmeric as Intercropping



Vermi Compost





Rearing Milch Animal - Raising Life Standards



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Rearing Milch Animal - Raising Life Standards





#### **Social Activities**





Creating hygienic environment in schools



Infrastructure for villages



**Dental Camp** 



Training to school children



Anemia screening for women





Category	Initiatives	Expenditure (Rs. Lakh)			Benefit to Community* (Rs. Lakh)		
		2009 -2010	2010 -2011	2011 -2012	2009 -2010	2010 -2011	2011 -2012
	Population Covered				401125	717928	781110
	Families				90778	154776	166403
Physical infrastructure		55.14	101.2	147.3			
	Formation of roads (Km)				198	262	326
	Construction of drains(Km)				132	142	176
	Improving infrastructure in balwadis (Nos.)				203	253	343
	No of balwadi toilets constructed (Nos.)				189	270	338
	Improving infrastructure for schools (Nos.)				162	177	313
	Drinking water facilities in schools (Nos.)				263	339	437
	Construction of community toilets (Nos.) etc.				65	70	78



Category	Initiatives	Expenditure (Rs. Lakh)			Benefit to Community* (Rs. Lakh)		
		2009 -2010	2010 -2011	2011 -2012	2009 -2010	2010 -2011	2011 -2012
Livelihood creation		2.35	3.49	2.68			
	Self Help Groups formed (Nos.)				2122	2556	3069
	Families enrolled in SHGs (Nos.)				33736	40387	48718
	Families income increased through income generation				30654	38483	47470
	Veterinary camps conducted (Nos.)				530	549	825
	No. of animals increase by milk yield				34675	43510	64060
	Area covered under drip irrigation (Ha.)				1596	1824	2330
	Agriculture related awareness programs (Nos)				790	1144	1483



#### **Results of the Social Activities**



Category	Initiatives	Expenditure (Rs. Lakh)			Benefit to Community* (Rs. Lakh)		
		2009 -2010	2010 -2011	2011 -2012	2009 -2010	2010 -2011	2011 -2012
Public health		8.57	9.93	15.24			
	General health check up for public (Nos.)				106918	123996	148063
	Dental health check up for students (Nos.)				20065	27700	36249
	Construction of Individual toilets (Nos.)				37179	45017	53111
	Construction of school toilets (Nos.)				211	378	378
	Malnourished children brought to normal (%)				96 %	96 %	96 %
	Reduction of anaemia among women (Nos.)				29140	35660	51147
Education		11.95	10.09	15.61			
	Enrolment of children				100%	100%	100%
	Infrastructure for schools (Nos.)				162	177	313
	Students securing pass marks in public exams				82%	84%	90%
	Adult education for women (Nos.)				29704	35458	40948





Category	Initiatives	Expenditure (Rs. Lakh)			Benefit to Community* (Rs. Lakh)		
		2009 -2010	2010 -2011	2011 -2012	2009 -2010	2010 -2011	2011 -2012
Skill development		0.40	0.28	2.10			
	No of youth trained in various skills and made employable (Nos.)				10663	13116	16449
Environment		11.35	17.53	12.07			
	Vermi compost pits constructed (Nos.)				31740	36134	53966
	Kitchen gardens constructed (Nos.)				32099	44046	57727
	Area under Afforestation (Hectares)				142000	162000	175250
Watershed development		5.96	5.39	3.13			
	Check dams constructed / rainwater harvesting structures				346	347	368
	Area coverage under watershed (Hectares)				12466	12466	10766
TOTAL		95.72	147.91	198.13			

#### **Accolades**





SST won the Times of India – Self help and Sustainability award from Prime Minister of India-2011



CII EHS Excellence Award 2012



Parivartan Sustainability Leadership Award 2011



Green Nurturing Award 2012

#### **Accolades**





Environmental Initiative Award 2012 presented by Honorable Chief minister of Himachal Pradesh





The Award of Excellence in Solid Waste Management from the International Society of Waste Management -2012

"Gold Award" in the "Green Tech Safety Award 2012".

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TVS





#### Migratory birds at Factory

#### **Befriending with Sparrows**



#### Varieties of birds:

- Painted storks
- Spot billed ducks
- Gargany ducks
- Herons
- Egrets
- Sand pipers

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<ul> <li>Passion</li> <li>Betcrouted while agging the fuse in a stormerat B.C. Pudur bigs expansed to give shape to its CMD's passion and lave for birds in the fullage, thanks to Mr. Venu Strinkrass (passion and lave for birds in the cocasion with the village ist county and local poople.</li> <li>C. Udayedra and get the fuse in the counts of the sparrows in the company was a rarest thing in the pass.</li> <li>Dige the fuse in the company was a rarest thing in the pass.</li> <li>Dige the fuse in the company was a rarest thing in the pass.</li> <li>Dige the fuse in the company was a rarest thing in the pass.</li> <li>Dige the fuse in the company was a rarest thing in the pass.</li> <li>Dige the fuse in the company was a rarest thing in the pass.</li> <li>Dige the fuse in the company was a rarest thing in the pass.</li> <li>Dige the fuse of the pass and recent and recent after de case and are string in the pass.</li> <li>Decal people.</li> <li>To mark the Day, school ding pair was a rarest thing in the pass.</li> <li>S. Venkatalakhni study pick pass with the help of the tore of the tore of the pass and the could watch in the placend's to could watch in the form in the rest and maintain the sparrow tool to be provided exponder to watch wa</li></ul>	), a youth from Bihar	now.	hear the chiming of the him	and the second sec	R. S. L. C. C.	Station and and and
<ul> <li>Hence, the SST has decided sparrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the village inst opposite to its CMD's parrows bay on the counts of the sparrows in the village inst opposite to its CMD's parrows bay on the counts of the sparrows bailt the part its the company was a rarest thing in the past.</li> <li>Horty-made gun edit, and the militaging and and antiating in the past.</li> <li>Horty-made gun edit de bid de he lange de la normo houses parrows built their di in her English and ada parrows built their di in her English and maintain the sparrow took its behind the nortrain is and ada provided the bid de la normo houses to sport obde the bid de la normo houses to sport obde the bid de la normo houses to sport obde the bid de la normo houses to sport obde the bid de la normo houses to sport obde the bid de la normo houses to sport obde the bid de la normo houses to sport obde the bid de la normo houses to sport operation houses parrows built their di ner English and maintain the sparrow to her at the dire in the read as and wroke by hill the ind in the read as and wroke by hill the ind in the read as and wroke by hill the ind in the read as and wroke by hill the ind in the read as and wroke by hill the ind in the read as and wroke by hill the ind in the read as and wroke by hill the ind in the read as and wroke by hill the ind in the read</li></ul>	s electrocuted while	Passion	in the village, thanks to Mr	7 7 7 7 7 7	La Real I	and realized and a start
<ul> <li>Barding and Krishnagfrion day. According to give shape to its CMD's garrows and adv. According to give shape to its CMD's garrows and adv. According to exclude the village just opposite to its case and any the village isst opposite to its case and any the counts of the sparrows and ingrove meet with the village store and improve the counts of the sparrows and its case and are stigating.</li> <li>The Trust took the initiative to improve the counts of the sparrows and ingrove the diverse and are stigating.</li> <li>The Trust took the initiative to improve the counts of the sparrows the sparrows the diverse and are stigating.</li> <li>The Trust took the initiative to improve the counts of the sparrows the diverse to sparrows the diverse to sparrows and and maintain the sparrow took and algo popel.</li> <li>Forest personnel led to del the bird de lan some houses sparrows built the dird in the regarding acountry-maked gun houses parrows built the dird in the regarding the during the during to the individent the sparrows took and maintain the sparrow took and maintain the spar</li></ul>	nging the fuse in a	Hence, the SST has decided			的问题的行为。	Ball Galant
sday. According to ex. Udspectra and and the village isst opposite to its factory near Hosur. The Trust state of the source of t	age near Krishnagiri on	to give shape to its CMD's	World Sparrows Day or			A POP A
<ul> <li>The other state is the milling in the past.</li> <li>The Trust state is the milling in the past.</li> <li>The Trust state is the milling in the past.</li> <li>The Trust state is the initia in the past.</li> <li>The Trust state is the initia in the past.</li> <li>The Trust state is the initia in the past.</li> <li>The Trust state is the initia in the past.</li> <li>The Trust state is the initia in the past.</li> <li>The Trust state is the initia in the past.</li> <li>The Trust state is the initia in the past.</li> <li>The Trust state is the initia in the past.</li> <li>The Trust state is the initia in the past.</li> <li>The Trust state is the initia in the past.</li> <li>The Trust state is the past.</li> <li>The Trust state is the past.</li> <li>The Trust state is the initia is the past.</li> <li>The Trust state is the past.</li> <li>The Trust state is the initia is the past.</li> <li>The Trust state is the initia is the past.</li> <li>The Trust state is the past.</li> <li></li></ul>	sday. According to	the village just opposite to its	Tuesday, the Trust celebrated	and the second sec		A Ree
<ul> <li>The Trust started its mis- failed in tappened at BC. Pudur village.</li> <li>The Trust started its mis- to constromer after forenator failed to at a in the mill.</li> <li>The Trust started its mis- function to conserve and improve the const of the sparrows near hing in the past.</li> <li>To mark the Day, school children took out a raily with the placards to save the dwin, fins standard IX in Andri- school achieves to 350 local residents and also perpose.</li> <li>Forest personnel fed two persons and a country-made gun accountry-made gun to duese sparrows built their din the Esparrows took state in the mill.</li> <li>Forest personnel fed two persons and a country-made gun ted two persons and a country-make gun to course to school the order in the rest.</li> <li>Forest personnel fed two persons and a country-make gun to course y-make gun to cou</li></ul>	ce, Udayendran along	factory near Hosur.	ere	A Contraction		THE STRACT
at B.C. Pudur village. Incident tappened in the decased went to be consist of the sparrows in montha ago. Sighting of sparrows as a ratest thing in the past. arginkada police have tered a case and are trigating. httry-made gun ed; arrested Forest personnel ted two persons and a country-mide gun be compared weak of the formation of the past. The Trust took the initiation of the took of the sparrows in the past. The Trust took the initiation of the took of the sparrows in the past. The Trust took the initiation of the took of the sparrows in the past. The Trust took the initiation of the took of the sparrows in the past. The Trust took the initiation of the took of the sparrows in the past. The Trust took the initiation of the took of the sparrows in the past. The Trust took the initiation of the took of the sparrows in the past. The Trust took the initiation of the took of the sparrows in the past of the took of the sparrows in the past of the took of the took of the sparrows in the past of the took of the sparrows in the past of the took of the t	king in a modern rice	sion to conserve and its mis-			Carlos and a second	10 11 1 18
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<ul> <li>months ago.</li> <li>month ago.</li> <li>months ago.</li> <li>month ago.</li> <li>month ago.</li> <li>month ago.&lt;</li></ul>	incident happened	Kothakondapalli village six		A CARLES		
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tered a case and are stigating. Intry-made gun ed; arrested E-Forest personnel ted two persons and a country-made gun ted with the help of the the hel	ate in the mill	thing in the past.	children took out a rally with	FAST DISAPPEARING: A ar	oup of sparrows sitting on	a nonenad
<ul> <li>And the provided gun striggting.</li> <li>The rest took the initia- the chirping bird with they so the count of the chirping bird with they so the so the provided gun striggting.</li> <li>Prorest personnel ded the bird feel. In some houses sparrows built their the during the source of the chirping bird with they so the local people.</li> <li>Prorest personnel ded the bird feel. In some houses sparrows built their the country-made gun the during the source of the chirping bird with they should be part they source the source of the provided by Strintvasan Services Trust.</li> <li>Photos: N. BASHKARAN</li> <li>Photos: N. BASHKARAN</li> <li>Photos: N. BASHKARAN</li> <li>WORLD SPARROW DAY OBSERVED chara to the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Photos: N. BASHKARAN</li> <li>WORLD SPARROW DAY OBSERVED chara to the provided by Strintvasan Services Trust.</li> <li>A boot 80 villages aroum.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Photos: N. BASHKARAN</li> <li>WORLD SPARROW DAY OBSERVED chara to the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Trust.</li> <li>Stoole source of the provided by Strintvasan Services Tr</li></ul>	arajakadaj police have	Local people	the placards to save the dwin-	in Kothakondapalli villag	e, near Hosur, on Tuesday	(Insert) A engineer
ntry-made gun ed; arrested E Forest personnel ted two persons and a country-made gun between the chipsing birth with tiny pink peak with the help of the school said the sparrow stock for this purpose, the Trust ted two persons and a country-made gun ted two the chipsing birth with tiny pink peak with the help of the school said the sparrow stock for this purpose, the Trust ted two persons and a country-made gun ted two terms the ted two persons and a country-made gun ted two terms terms the ted two persons and a country-made gun ted two terms terms terms the ted two terms ter		The Trust took the initia-	S. Venkatalakshmi atudu		ton box provided by Sriniva	san Services Trust
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local people.     oral people.     grains from her aunt's hands.       arrested     For this purpose, the Trust     She also said she could watch     Kothakondapalli village Pan- dam diminitali the sparow     dent, Civil, TVS Motor Com pany. spoke at the meeting oraginsed for the purpose at the UND persons and a country-made guin     sur in three and maintain the sparow       2: Forest personnel ted two persons and a country-made guin     and also pro- tractically though she reads     recited a song wrote by the late     byricist     Thaning The CSR arm of the TVS	ntry-made gun	pink peak with the belo of the	wadi Government High	WORLD SPAPDON	DAV ODCEDUED	about no
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tee wo persons and houses sparrows built their textbook. I acountry-made gun nests behind the portraits for the not state of the portraits of	E: Forest personnel	vided the bird feed. In some		recited a song wrote by the	organised for the purpose at	nomic development, heal
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them in Asanur Is near Standard V students from P. Venkatesan, Vice-Presi- Company extended its help in infrastructure.	them in Asanur	needs benind the portraits in	Standard V students from	P. Venkatesan, Vice-Presi-	Company extended its help in	tion, environment an





"The challenge is to make development sustainable, through the active participation of communities - the true agents of change."



#### **End of Presentation**