

Situation in India

- Latest Information of Indian ELV
- Indian ELV regulation Contents
- MDS reporting request from Indian OEM
- Conclusion

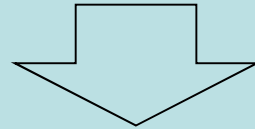
December, 2011

In 2010, SIAM launched WG to discussion concerning Indian ELV.

<WG member OEM>

Chairman : TVS Motor / vice-chairman : Daimler

Members : Maruti Suzuki, GM, Ford, Tata, Mahindra, Hiro Honda,
Bajaj, Toyota Kirloskar, Renault Nissan



- At 2 Aug. 2011, NATRiP established Recycle Demo Center in Chennai. The purpose of Demo Center is research in ELV recycle in India. Indian OEMs provided old vehicles for the Recycle Demo Center.
- In 2011, SIAM WG review a draft of Indian ELV, and then the draft will be proposed to Indian government to implement.
(This information is not opened.)

- SIAM WG target date of Indian ELV : 2015
- Indian ELV draft is consisted following 4 category,
 - Collection
 - Treatment
 - Design for Environment
 - Implementation
- In “Design for Environment”, following regulation is included,
 - 4 heavy metal ban
 - RRR
 - Part marking

Indian ELV may be implemented in several years?
Suppliers in India will be required necessary countermeasures.
(MDS reporting and alternative of restriction substances)

Indian ELV regulation Contents

4/7

< Indian ELV (draft) > proposal implement date : 2015 (not yet decided)

Indian ELV		EU-ELV
Target vehicle	- 4 wheel vehicle (not including bus and track) - Motorcycle / tricycle	- 4 wheel vehicle (not including bus and track) - Tricycle
Recyclability	Recyclability :??% Recoverability :??% (calculate method : ISO 22628)	Recyclability :85% Recoverability :95% (calculate method : ISO 22628)
Substance restriction	Pb, Hg, Cd, Cr6+ (There are some exemption items. The exemption items is similar to previous EU-ELV.)	Pb, Hg, Cd, Cr6+ (There are some exemption items.)

- Indian ELV draft is similar as EU-ELV. But, not decided yet.
- Suppliers have to collect latest information of Indian ELV, continuously.

MDS reporting request from Indian OEM^{5/7}

Major Indian OEMs will start MDS reporting before Indian ELV implement.
OEMs may use IMDS as MDS reporting system.

Joint Venture	Maruti Suzuki	They have a plan to start MDS reporting using IMDS for domestic vehicles. (They already doing IMDS for export vehicles.)
	Other OEMs	They don't start MDS reporting. These OEMs may use IMDS.
Indian OEM	Tata	They don't start MDS reporting. Tata may use IMDS.
	Mahindra	They don't start MDS reporting. Mahindra consider to use new Indian system, which KPIT Cummins proposed.

- Major Joint Venture OEM consider to use IMDS for MDS reporting system in India.
- But, Indian OEM consider to use new Indian system to MDS reporting in India. (ex.Mahindra)
Indian OEM said that IMDS cost is expensive.
- If starting new Indian system, suppliers have to convert MDS reporting data from IMDS to Indian system.

- IMDS is used standard MDS reporting system in India?
- KPIT Cummins proposed new Indian system for Indian OEM.
(KPIT Cummins is IT system company in India, they participate SIAM WG as consultant.)

<Indian ELV>

SIAM WG created a draft of Indian ELV and discuss it.
After SIAM discussion, the draft will be proposed to Indian government.

Indian ELV will be implemented in several years?

<MDS reporting>

Major Indian OEMs will start MDS reporting before Indian ELV implement.

OEMs may use IMDS as MDS reporting system.

KPIT Cummins proposed new MDS reporting system to SIAM WG.