

Report of the Meeting of the India Germany Working Sub-Group I on Technology on Monday, 21st September 2009 at IAA Congress Centrum, Frankfurt

1. *The first meeting of the Working Sub-Group on Technology was held on 21st September, 2009 and co-chaired by Mr. Dirk Inger, Director, Strategic Planning, International Policy, Federal Ministry of Transport and Mr. Shrikant Marathe, Director, Automotive Research Association of India from German and Indian side respectively.*
2. *The Meeting was attended by members as per the list enclosed in annexure I.*
3. *The Agenda for the meeting was adopted and the adopted agenda is given in annexure II.*
4. *Mr. Dirk Inger in his opening remarks welcomed the Indian delegation and mentioned that Germany - in order to cope with the challenges of climate protection and energy security - is concentrating in the areas of developing technologies for improvement in the energy efficiency, alternative power trains and alternative fuels. These could be the areas of cooperation between India and Germany. He further suggested that commercialization of the outcome of R&D projects now covered under the Working sub group II for Commercialization is closely connected with the scope of work of Group I and hence should be covered in the Technology Group. This was agreed by the members. Request was also made later for this change to the Working Group II on Commercialization during their meeting which was agreed by the members of Group II.*
5. *Delegations from Germany and India agreed upon the need to broadly cooperate in the Technology areas like:*
 - *Improving fuel efficiency*
 - *Drive train improvements*
 - *Use of alternative fuels*

AND

the Policy framework to support commercialization of innovative technologies, including long term strategies etc.

6. *Both groups also agreed upon that keeping the broad perspective in view, the group should*
 - *identify specific areas /projects to work upon along with definite project plan*
 - *identify specific participating government departments /organizations / industry along with lead agencies from both India and Germany in each of these specific projects*

7. *India gave a presentation on the possible areas of cooperation along with the participating organizations from India.*

Germany gave a presentation on the national fuel strategy showing medium and long term options for alternative drives and fuels for improved fuel efficiency / reduced CO2 emissions including infrastructure. As mentioned earlier, Germany suggested that framework to support commercialization of the outcome of the R&D projects should be linked to the technology cooperation in group I.

8. *India suggested cooperation in the following areas:*

- *Lightweighting with specific emphasis on aluminum, magnesium and composites*
 - *Participating organizations : ARAI, SIAM, ACMA, NATRIP, TIFAC with lead agency ARAI*
- *Alternate fuels like hydrogen, bio-mass, bio diesel*
 - *Participating organizations: ARAI, IOC, NATRIP, SIAM with lead agency IOC*
- *Battery Technology*
 - *Participating organizations : ARAI, SIAM, ACMA, NATRIP, with lead agency ARAI*
- *Development of end of life technology*
 - *Participating organizations: SIAM, NATRIP, DHI with lead agency NATRIP*
- *Development of competency in embedded electronics*
 - *Participating organizations: ARAI, ACMA, NATRIP with lead organization ARAI*
- *Development of ITS systems*
 - *Participating organizations : SIAM, TIFAC, DHI with lead agency SIAM*
- *Development of technologies for fuel efficient diesel engines*
 - *Participating organizations: ARAI, ACMA, IOC, NATRIP, SIAM with lead agency ARAI*

9. *The German delegation mentioned that while they agree generally on the suggested areas of cooperation, they will firm up their ideas further and make available their final views in about 6 weeks.*

The German delegation will also identify the organizations which will be associated for projects agreed by both the sides.

10. On the issue of frequency of meetings it was decided that:

- The working sub group on Technology will meet twice a year.*
- The next meeting will be held in India in January 2010 during the Indian auto exposition.*
- In order to maximize output, it was also agreed that this working sub group may also meet at venues other than in India and Germany where ever both the sides are present in connection with other work like at Geneva during WP-29 meeting*

11. The meeting was concluded since there were no other points for discussion.