

F.No. 7/1/2015-AEI [6474]
Government of India
Ministry of Heavy Industries & Public Enterprises
Department of Heavy Industry

Dated the 27th March 2017

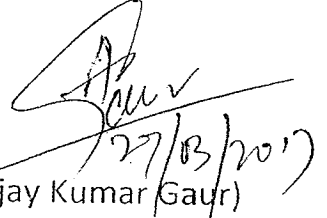
OFFICE MEMORANDUM

Minutes of the meeting of
Sanction Committee under Auto
Cess Fund

Subject: Minutes of the meeting of Sanctioning Committee under
Auto Cess Fund.

The undersigned is directed to forward minutes of the meeting
of Sanctioning Committee under Auto Cess Fund held at 11.30 AM on
9th March 2017 at Kaustabhum Conference Hall, Udyog Bhawan, New
Delhi.

2. This has approval of the competent authority.


27/3/2017
(Ajay Kumar Gaur)

Under Secretary to the Govt. of India

tel.No.23061340

Email ak.gaur@nic.in

To

As per list enclosed.

अजय कुमार गौड़/AJAY KUMAR GAUR
अवर सचिव/Under Secretary
भारी उद्योग एवं लोक उद्यम मंत्रालय
Ministry of Heavy Industries & Public Enterprises
भारी उद्योग विभाग/Deptt. of Heavy Industry
उद्योग भवन, नई दिल्ली-110011
Udyog Bhawan, New Delhi-110011

Copy to:-

1. Pr.SO to SHI.
2. PPS to JS (Auto), DHI.
3. PS to Director (Auto), DHI.
4. Guard File.

To

1. Shri Abhay Damle, Joint Secretary, MoRTH, Transport Bhawan, New Delhi.
2. Ms Anita Chauhan, Joint Secretary, Department of Science & Technology, Technology Bhawan, New Delhi.
3. Shri Sanjay Bandopadhyaya, CEO&PD, NATRIP, NBCC Place, South Tower, 3rd Floor, Pragati Vihar, Lodhi Road, New Delhi.
4. Smt. Rashmi Urdhwareshe, Director, ARAI, S.No. 102, Vetal Hill, Off Paud Road, Kothurd, Pune, Maharashtra.
5. Shri Vishnu Mathur, Director General, SIAM, Core-4B, 5th Floor, India Habitat Centre, Lodhi Road, New Delhi.
6. Shri Vinnie Mehta, Director General, ACMA, The Capital Court, 6th Floor, Olof Palme Road, Munirka, New Delhi.
7. Ms Tripti Gurha, Director (IITs), Department of Higher Education, MHRD, Shastri Bahawn, New Delhi.
8. Professor Bhaskar Ramamurthy, IIT, Madras.
9. Professor Ananda Deb, IISc, Bangalore.
10. Shri Shankar Krishnan, IIT, Bombay.
11. Dr. Anand Parey, IIT, Indore.
12. Professor Anil Bhowmick, IIT, Kharagpur.
13. Dr. Tata N.Rao, ARCI, Hyderabad.
14. Professor Uday B.Desai, IIT, Hyderabad.
15. Shri Dinesh Tyagi, Director, ICAT, Manesar.
16. Shri N.R.Kachare, Scientist, CIRT, Pune.

MINUTES OF THE MEETING OF SANCTIONING COMMITTEE UNDER AUTO CESS FUND HELD AT 11.30 AM ON 9TH MARCH

A meeting of the Sanctioning Committee (Auto Cess Fund) under the chairmanship of Secretary (Heavy Industry) to consider new project proposals received in the Department for grant under Auto Cess Fund, as recommended by the MoHRD under their Uchhatar Avishkar Yojana (UAY) & IMPRINT and some other proposals recommended by the Technical Screening Committee (TSC) on 16th Feb 2017, was held at 11.30 AM on 9th March 2017 at Kaustabhum (Conference Hall- Room No. 172), Udyog Bhawan, New Delhi.

2. At the outset, the Chairman welcomed all the participants. A list of the participants is at ANNEXURE-I.

3. After a brief round of introduction by all participants, Joint Secretary (Auto) initiated the discussion by informing the background / activities & the funding under Auto Cess Fund.

4. **The Chairman observed that there should be documentation clearly defining the scope / activities and procedure for considering proposals for sanctioning grant under Auto Cess Funds.**

5. The Chairman then allowed commencement of the proceeding advising that the presentation by the Implementation Agencies of projects should be brief highlighting (i) Intended Benefits; (ii) Funding Pattern; and (iii) Timeline for completion of projects.

6. Thereafter the following proposals are presented before the Committee and deliberated upon at length as summarized hereunder:-

(A). Proposals received under IMPRINT initiative of MoHRD-

1. Project Proposal No. 7035 presented by Dr. Rao, ARCI, Hyderabad

Hierarchical Nanostructure Carbon Materials Derived from Candle Soot and Graphene for High Rate and High Performance Electrodes for Automotive Batteries and Supercapacitors [IIT, Hyderabad & ARCI, Hyderabad] from Impacting Research Innovation and Technology (IMPRINT)/ MoHRD.

The broad objective of this proposal is to develop low cost but high rate and high capacity enabled rechargeable lithium ion battery and supercapacitor prototype for electric and plug-in hybrid vehicles. This project facility is for Research work and Product development.

The Apex Committee of the IMPRINT in its meeting has requested the Ministries/ Departments to consider the details proposal and give their concurrence for funding 50% of the project cost of

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these research projects. Total project budget is **Rs.260.68 Lakhs** and Demand from DHI- Total: **130.34/- Lakhs (1st Yr. - Rs. 61.46, 2nd Yr. - Rs. 48.26 & 3rd Yr. - Rs. 20.62)**.

Outcome of the project is full cell demonstration of candle soot derived carbon nanoparticles using coin cell prototype, high performance and high rate anode for LIB and super capacitors derived from candle soot, demonstration of the battery and super capacitor performance at pouch cell/cylindrical cell, Scaling up of the carbon materials up to kg level, Demonstrating optical hierarchical structure for enhanced electrochemical performance by tuning and Developing the prototype for the LIB and super capacitor using candle soot based hierarchical structure.

After discussion by Sanctioning Committee (Auto Cess Fund), the Committee was of the opinion that the subject matter of this proposal falls within the mandate of FAME India Scheme of the Department. Hence this proposal may be considered directly by the Project Implementation Sanctioning Committee (PISC) under the said Scheme in its next meeting shortly.

2. Project Proposal No. 5298 presented by Mr. I. Manna for IIT, Kanpur

Developing Indigenous Lightweight Components for Automobile Powertrains (IIT, Kanpur & ARAI, Pune). Domain: Advanced Materials; Theme: Transportation (Light Alloys) from Impacting Research Innovation and Technology (IMPRINT)/ MoHRD.

The objective is to replace two existing powertrain components viz. Connecting Rod and Piston with lighter ones that would enable increased engine efficiency of a select motorbike engine. In addition to use of lighter alloys, "smart design" of components and engine will also be implemented for weight saving. Cost analysis of the new light weight components and preparing guidelines for cost effective manufacturing of the components.

The Apex Committee of the IMPRINT in its meeting has requested the Ministries/ Departments to consider the details proposal and give their concurrence for funding 50% of the project cost of these research projects. Total Estimated Budget **Rs. 3.897/- crores.** Demand from DHI- Total: **194.869/- Lakh (1st Yr. - Rs. 100.415, 2nd Yr. - Rs. 46.478 & 3rd Yr. - Rs. 47.976)**.

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Outcome of the project is (i) Technology demonstration by smart re-design and manufacturing of lightweight forged connecting rod and piston for the selected engine; (ii) Component level testing to assess their functional and environmental durability; (iii) Generation of guidelines for component and engine design with light alloy; (iv) Some patents and journal publications are expected to come out of the project; (v) Trained manpower in the form of two PhD students, One Post-doc and two RA's.; and (vi). Cost- benefit analysis and guidelines for further cost reduction.

After extensive deliberation on the project details & outcome to be achieved vis-à-vis automotive industry, the Committee observed that the proposal needs to be re-worked and thereafter placed before the Committee.

(B). Financial support for Uchhatar Avishkar Yojana (UAY) Projects concerning Automobile Sector-

1. Development of Light Weight REEV [Range Extended Electric Vehicle] with Renewable Energy based Fuel Cell Range Extender [IISc, Bangalore through Ministry of Human Resource & Development].

The main objective is "To develop Electric Vehicle (EV) with minimum investment to keep its retail cost as low as possible and Developing a viable plug-in electric version of a Tata Nano REEV (Range-Extended Electric Vehicle) by optimizing its weight and ensuring that it meets or exceeds the standard set by the current production vehicle in attributes such as vehicle Dynamics, NHV (Noise Vibration and Harshness), Durability and Crash Safety through extensive use of advance CAE (Computer Aided Engineering) techniques. Total Estimated Budget Rs. 120 Lakhs Demand From DHI- Total: Total: 30/- Lakh. However 25% industry contribution (in Total), primarily in sub-head (A) manpower (B) consultant Balance will be funded under Uchhatar Avishkar Yojana (UAY). Outcome of the project is Demonstrate a novel power train configuration for a fuel cell-based REEV in a compact commercial car viz. Tata Nano and Demonstrate the power train configuration mentioned above for a fuel cell-based REEV in a lightweight compact car i.e. a novel aluminium space frame-based hatchback.

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After discussion by Sanctioning Committee (Auto Cess Fund), the Committee was of the opinion that the subject matter of this proposal falls within the mandate of FAME India Scheme of the Department. Hence this proposal may be considered directly by the Project Implementation Sanctioning Committee (PISC) under the said Scheme in its next meeting shortly.

2. Durable Thermal Barrier Coatings for improved Internal Combustion Engine Efficiency (IIT, Bombay through Ministry of Human Resource & Development) from Department of Mechanical Engineering, IIT Bombay.

The main objective is to develop strategies for designing the coating and components as a system, with improved reliability and durability in an engine environment. Total Estimated Budget Rs. 99.80 Lakhs and Demand From DHI- Total 24.95/- Lakh. However 25% industry contribution (in Total), primarily in sub-head (A) manpower (B) consultant Balance will be funded under Uchhatar Avishkar Yojana (UAY). Outcome of the project is identification of failure modes due to thermal fatigue and Design for engineered TBCs (Thermal barrier Coating) for IC (Internal Combustion) engine pistons. The targeted efficiency goal for this project is to derived a pathway for achieving 2% improvement in IC engine efficiency. Another target is for thermal barrier coating to survive 400hrs of engine operation through experimental and simulation evidences.

The committee was informed that Professor Shankar from IIT, Mumbai communicated through mail that he was not well and hence would not be able to attend this meeting but was ready for presenting their proposal through VC mode. Efforts were made by the Department but the same could not be managed due to technical fault in voice connectivity with IIT, Mumbai at the time of meeting.

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The chairman then observed that the project proposal should not be suffered if the proposer could not be managed to attend the meeting for some genuine reasons. The committee therefore decided that the proposal may be examined expeditiously on file vis-à-vis benefits to the automotive industry for finally deciding this proposal.

3. **Internal noise measurement, analysis, source identification and design counter measures for trucks and buses (IIT, Indore through Ministry of Human Resource & Development)**

The main objective is measurement of noise level, analysis of measured noise signals and identification of noise source and to refine the noise level inside the cabin and bus body. Total Estimated Budget Rs. 65 Lakhs and Demand From DHI- Total 16.25/- Lakh. However 25% industry contribution (in Total), primarily in sub-head (A) manpower (B) consultant Balance will be funded under Uchhatar Avishkar Yojana (UAY). Outcome of the project is development of state of the art facility for noise measurement and noise source identification. Experimental facility for measurement of transmission loss for various commercially available materials, Experimental facility for model analysis, Development of standard procedure for noise and vibration improvement of buses and trucks and Innovative design solutions for noise control using sound isolation sound absorption.

The Committee was also informed that the existing Eicher Trucks and buses have higher interior noise issue which is concerns to the end customer. Therefore the collaborative research project is being taken with objective of root cause analysis and developing low-cost innovation design solutions to reduce noise significantly and bring customer satisfaction.

The committee observed that the proposal would be beneficial from the industry point of view as well for the public at large and also covered within the mandate of funding under Auto Cess Fund. Hence this proposal has been sanctioned by the Committee.

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4. Development of High Performance Rubber Composites using New Generation Materials for application in Tyre [IIT, Kharagpur through Ministry of Human Resource & Development].

Professor A. K. Bhowmick from IIT Kharagpur made a detailed presentation on this project. The main objective is to meet the challenges such as superior performance properties, strict environmental and safety requirements, low carbon footprint etc. These composites consist of widely varying materials: particulate fillers like carbon black and silica, rubbers, fabric and steel cord. Total Estimated Budget 736.31/- Lakh and Demand From DHI- Total 184.08/- Lakh. However 25% industry contribution (in Total), primarily in sub-head (A) manpower (B) consultant Balance will be funded under **Uchhatar Avishkar Yojana (UAY)**. Outcome of the project is Development of rubber compounds to meet specifications of future tyre, Understanding of interactions of novel compounding ingredients and fillers, Studies of adhesion among the components, Processing of the compound in the industry and scaling up, Development of tyre in the laboratory and testing of properties.

The Committee was informed that the tyre manufacturers would need advance technology to meet the requirements of the world, although a few companies are developing novel materials and technology. Its pace is to be increased with strong basic understanding for future technology development.

The chair observed that why the industry and consortium partners are not funding this project when the industry is going to be benefited at last. AS&FA the pointed out that the project cost is not fully profiled. The Committee also observed that the subject "Tyre" comes within the mandate of DIPP and not under DHI.

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The Committee therefore decided that the Department would re-examine the matter keeping in view the afore-mentioned observations of this Committee before taking a final call on the proposed funding of this project.

(C). Proposals recommended by the Technical Screening Committee (TSC) in its meeting held on 16th February 2017.

(i) Setting up of whole Vehicle Electro Magnetic Compatibility Lab (EMC) test facility for 2, 3, 4 wheeler passenger cars and small Commercial Vehicles at ARAI-HTC (Homologation and Technology Centre), Chakan.

Director, ARAI made a presentation before the Committee informing that the main objective of this project is to establish whole Vehicle EMC facility, suitable for R&D and testing of both conventional as well as EV/HEV vehicles. This facility will incorporate special provision like Battery Simulator, DC high voltage LISN, Battery charging mechanism and Motor Dyno integration, especially for EMC testing of electric power-train vehicles). Total Estimated Budget Total Budget Rs. 4700/- Lakhs, Funds sought from DHI: Rs. 3500/- Lakh and ARAI contribution: Rs. 1200/- Lakhs.

Outcome of the project is end to end solution for development of vehicle platform, EMC testing and validation requirements of non-automotive sectors, such as industrial electronics, wireless communication, etc. The chairman has made observation that ARAI proposal for "Setting up of Whole Vehicle EMC test facility" seeking grant Rs. 4700/- Lakhs and inquired about ARAI funding, if ARAI is a profit making organization why need a grant?

Director, ARAI informed the committee that the total project cost is Rs. 47 crores, out of which Rs 35 crores are requested from the Department and Rs. 12 crores would be ARAI's contribution. It was further informed that duration of Project is 2 years and the expenditure for 1st year & 2nd

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year would be Rs. 38 crores & Rs. 9 crores respectively. However this facility is an expensive R & D project.

The chair asked Director, ARAI about the business proposal involved in this project. Then Committee was informed that the total payback period is estimated to be 10 years with IRR @ 10% based on net project value.

After deliberation on this project, the Committee was of the opinion that this can be fully undertaken by ARAI on their own considering the proposed IRR of this project. Hence the Committee has not recommended this project for funding through Auto Cess Fund.

- (ii) Organizing 2nd Edition of ACMA Summit: Synergizing with global Supply Chain from Automotive Component Manufacturers Association of INDIA (ACMA).

The main objective is to create larger awareness within the global supply chain consisting of OEMS. (II) To get a better perspective on global supply chain management and challenges. (III) To invite other stakeholders from global counterpart association to work more closely. Total Estimated Budget Total Budget Total Budget Rs. 41,00,000/- . Govt. Grant sought: Rs. 30, 80,000/- Lakh ; Outcome of the project is Collaboration, Partnership within the component manufacturers, Enhance business, Promoting India, Brand building of Made in India products, strengthening supply Chain.

During discussion representative of ACMA informed that since summit is already over and they manage expenditure within their budget, they are withdrawing the proposal.

- (iii) New Delhi Real World Emission Study by ICAT/NATRIP from International Centre for Automotive Technology (ICAT/ NATRiP).

Director, ICAT made a presentation before the Committee. The main objective is to study the impact of vehicle on road emission, to identify the environmental load of various vehicle mixes on

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road and to use Remote Sensing Devices for identifying gross polluters. Total cost of the project INR 4.65 Cr. Outcome of the project is establish a factor of ratio between standard cycle and real world cycle emission and Improve air quality for the benefit of public health. The duration of the project is 13 months.

The Chairman inquired about the funding from ICAT in this project.

Director, ICAT clarified that the total cost will be exceeded if ICAT include other cost of research project like Vehicle testing, Manpower etc., which is approximately Rs. 27 Lakhs.

The Committee observed that the project costing should include share from ICAT as well. Subject to this observation committee recommended the project for sanctioning under Auto Cess Fund.

(iv) Facility for Measurement of Tyre Rolling Resistance from Central Institute of Road Transport.

Shri N.R.kachare. Scientist from CIRT made a presentation on this project. The main objective is to help the tyre industry for developing good products, to provide test facility and to carry out R&D work and fulfil the requirement of Global Technical Regulation. Total cost of the project Rs. 600/- Lakhs. Outcome of the project is: - it will have a huge impact on Indian fuel import bill. This will improve overall economy of the country and will benefit the society.

The committee sought to know from the proposer whether they are getting any funding from MoRTH for the proposal.

The Committee was informed that though their proposals were forwarded by MoRTH but they have not got any funding from them.

Considering the importance of Tyre Rolling Resistance & its impact on possible fuel saving, Sanctioning Committee accepted the recommendations of Technical Screening Committee and recommended for sanctioning under Auto Cess Fund.

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(v) Measurement of Wet Grip Adhesion of Tyres (Class C1 i.e. Passenger Car-Regulation ECE R 30) from Central Institute of Road Transport (CIRT) is presented by Shri N.R.kachare.

The main objective is In order to increase the safety of road, Promote fuel efficiency and decrease noise level to protect the environment as per ECE R 117 guidelines. Total cost of the project Rs. 600/- Lakhs. Outcome of the project is this will help to drastically bring down number of accidents taking place on Indian roads, Improve passenger safety and benefit the society.

Considering the importance of Wet Grip Adhesion of Tyres & its impact on possible fuel saving, Sanctioning Committee accepted the recommendations of Technical Screening Committee and recommended for sanctioning under Auto Cess Fund.

(vi) Seat Strength Test system from Central Institute of Road Transport (CIRT).

The main objective is To check the strength of passenger seat other than the driver and co-driver seat in the event of sudden deceleration/ acceleration/ Head on collision accidents. Total cost of the project Rs. 50/- Lakhs. Outcome of the project is to improve safety of passengers and will help manufacturers to compete with foreign manufacturers.

After having gone through the details of this proposal, the Committee didn't find them fit to be sanctioned under Auto Cess Fund at present.

(vii) Energy Dissipation Test system from Central Institute of Road Transport (CIRT) .

The main objective is to assess the energy absorbing characteristic of rear side of seat or head rest and To check the safety of passengers due to sudden impact of head on rear part of the seat in the event of sudden head on collision accident. Total cost of the project Rs. 30/- Lakhs. Outcome of the project is to improve safety of passengers and will help manufacturers to compete with foreign manufacturers.

After having gone through the details of this proposal, the Committee didn't find them fit to be sanctioned under Auto Cess Fund at present.

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7. The summary of the decision taken on all the proposals considered by the Committee in this meeting are as per ANNEXURE-II.
8. The meeting ended with thanks to the chair.

Concluded.

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Proposals from IMPRINT and UAY Projects:-

S.No.	Project/Proposal	Implementation Agency	Project Budget (Rs.)	Grant Sought from Department	Decision of the Committee
1.	Hierarchical Nanostructure Carbon Materials Derived from Candle Soot and Graphene for High Rate and High Performance Electrodes for Automotive Batteries and Supercapacitors. (Project Proposal No. 7035)	IIT, Hyderabad & ARII, Hyderabad] from Research and Innovation Technology (IMPRINT)/ MoHRD.	Rs. 250.68/- Lakhs	Rs. 130.34/- Lakhs	This proposal may be considered directly by the Project Implementation Sanctioning Committee (PISC) under the FAME India Scheme in its next meeting shortly.
2.	Developing Indigenous Lightweight Components for Automobile Powertrains. Domain: Advanced Materials. Theme: Transportation (Light Alloys) from Impacting Research Innovation and Technology. (Project Proposal No. 5258)	IIT, Kanpur & ARAI, Pune (IMPRINT)/ MoHRD.	Rs. 3.897/- Crores.	Rs. 194.869/- Lakhs	After extensive deliberation on the project details & outcome to be achieved vis-à-vis automotive industry, the Committee observed that the proposal needs to be re-worked and thereafter placed before the Committee.

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3.	Development of Light Weight REEV [Range Extended Electric Vehicle] with Renewable Energy based Fuel Cell Range Extender	IISc, Bangalore through Ministry of Human Resource & Development (UAY Project)	Rs. 120/- Lakhs	Rs. 30/- Lakhs	The Committee was of the opinion that the subject matter of this proposal falls within the mandate of FAME India Scheme of the Department. Hence this proposal may be considered directly by the Project Implementation Sanctioning Committee (PISC) under the said Scheme in its next meeting shortly.
4.	Durable Thermal Barrier Coatings for improved Internal Combustion Engine Efficiency	IIT, Bombay through Ministry of Human Resource & Development (UAY Project)	Rs. 99.80 Lakhs	Rs. 24.95/- Lakh	The chairman then observed that the project proposal should not suffer if the proposer could not be managed to attend the meeting for some genuine reasons. The committee therefore decided that the proposal may be examined expeditiously on file vis-à-vis benefits to the automotive industry for finally deciding this proposal.

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5.	Internal noise measurement, analysis, source identification and design counter measures for trucks and buses.	III, Indore through Ministry of Human Resource & Development (UAY Project)	Rs. 65/- Lakhs	Rs. 16.25/- Lakhs	The committee observed that the proposal would be beneficial from the industry point of view as well for the public at large and also covered within the mandate of funding under Auto Cess Fund. Hence this proposal has been sanctioned by the Committee.
6.	Development of High Performance Rubber Composites using New Generation Materials for application in Tyre.	III, Kharagpur through Ministry of Human Resource & Development (UAY Project)	Rs. 736.31/- Lakhs	Rs. 184.08/- Lakhs	The Committee therefore decided that the Department would re-examine the matter keeping in view the afore-mentioned observations of this Committee before taking a final call on the proposed funding of this project.

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S.No.	Project/Proposal	Implementation Agency	Project Budget (Rs.)	Grant Sought from Department	Decision of the Committee
1.	Setting up of Whole Vehicle EMC test facility for 2, 3, 4 wheeler passenger cars and small commercial vehicle at ARAI-HTC, Chakan, Pune	The Automotive Research Association of India (ARAI).	Rs. 4700/- Lakhs	Rs. 3500/- Lakhs	Not Recommended by the Committee.
2.	Financial support from ACMA for their Summit - Synergizing with Global Supply Chain held at New Delhi during 3rd & 4th February 2017.	Automotive Component Manufacturers Association of INDIA (ACMA)	Rs. 41/- Lakhs	Rs. 30.80/- Lakhs	Not Recommended by the Committee.
3.	New Delhi Real-World Emission Study by ICAT/NATRIP	International Centre for Automotive Technology	Rs. 4.65 Cr.	100% of the project cost.	Recommended by the Committee.

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4.	Facility for Measurement of Tyre Rolling Resistance	Central Institute of Road Transport (CIRT)	Rs. 600/- Lakhs	100% of project cost.	Recommended by the Committee.
5.	Measurement of Wet Grip Adhesion of Tyres (Class C i.e. Passenger Car- Regulation ECE R 30)	Central Institute of Road Transport (CIRT)	Rs. 600/- Lakhs	100% of project cost.	Recommended by the Committee.
6.	Seat Strength Test system	Central Institute of Road Transport (CIRT)	Rs. 50/- Lakhs	100% of project cost.	Not Recommended by the Committee.
7.	Energy Dissipation Test system	Central Institute of Road Transport (CIRT)	Rs. 30/- Lakhs	100% of project cost.	Not Recommended by the Committee.

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UNDER AUTO CESS FUND HELD AT 11.30 AM ON 9TH MARCH

ANNEXURE-I

LIST OF PARTICIPANTS

1. Shri Girish Shankar, Secretary, Department of Heavy Industry
2. Shri Vishvajit Sahay, Joint Secretary, Department of Heavy Industry
3. Shri Abhay Damle, Joint Secretary, MoRTH
4. Shri Sanjay Bandopadhyaya, CEO & PD, NATRiP
5. Shri Pravin Agrawal, Director (Auto), Department of Heavy Industry.
6. Shri Amit Mukherjee, ACMA
7. Smt. Rashmi Urdhwareshe, Director, ARAI.
8. Shri Sarat, ARAI
9. Shri Kundan Nath, MHRD
10. Shri N.R.Kachare, CIRT
11. Dr. Anand Pandey, IIT Indore
12. Shri Sushil Rajput, ACMA
13. Shri Dinesh Tyagi, Director ICAT.
14. Mrs. Pamela Tikku, ICAT.
15. Shri Deepak Agrawal, ICAT.
16. Shri Vikas Sadan, ICAT.
17. Dr. Rao, ARCI, Hyderabad
18. Prof. A. K. Bhowmick, IIT Kharagpur
19. Prof A. Dev, CPDM, IISc

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Pravin Kumar Agrawal

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