

REPORT OF
CERTIFICATION COURSES
FOR
ROAD SAFETY AUDITORS
NEW DELHI, INDIA

May 2013

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*Report of Certification Courses for
Road Safety Auditors in May. 2013,
New Delhi, India*



REPORT OF CERTIFICATION COURSES FOR ROAD SAFETY AUDITORS IN MAY 2013 NEW DELHI, INDIA

IRF India Chapter in Association with Australian Road Research Board (ARRB) and Central Road Research Institute (CRRI) has taken initiative for delivering Certification Courses for “Road Safety Auditors”. With the aim of building capacity for road safety audit works in the country (i.e. India) by creating trained experts for road safety audit works and to certify them for international level recognition, two courses were organized successfully back to back in last two weeks of May 2013. These training courses were organized in two consecutive weeks during 20th to 24th May and 27th to 31st May 2013. The training has been imparted by both ARRB and Indian experts. The training courses had special requirement for entry qualifications, and then 90% attendance, passing of an evaluation test of the auditing knowledge and skills developed by the trainees, including preparation of report and making presentation of the practical audits. A Certificate has been issued to each trained auditor, who fulfilled all the requirements, by the ARRB, IRF (India Chapter) and CRRI jointly. These auditors will be carrying out the RSA in the country in coming time.

The trainees were selected based on educational background, past training and the experience. Those who have a degree in Civil Engineering or post-graduate degree or diploma in Traffic Engineering/Highway Engineering/Transportation Engineering etc or at least 10 years of experience in related work were eligible for the certification course. The **Annexure I** shows the application format filled by the candidates, which was used for selection of the candidates for the Certification Courses. Educational Institutions, Consultancy Organizations, Government Departments and Road/Highway Authorities in Centre and States, having staff with the requisite qualifications and experience, nominated officers for the training courses.

The course material was designed jointly by ARRB, IRF (India Chapter) and CRRI, and the course was structured for appropriate development of RSA skills in the participants. The course contents and the faculty who delivered the two courses are given in **Annexure II**. The two courses are attended by a total of 45 participants (21 participants in the first course and 24 participants in the second), and their list and contact details are given in **Annexure III**. The faculty/experts were:

Mr. Paul Hillier, ARRB Group Ltd.

Prof. P. K. Sikdar, IRF (India Chapter)

Mr. Jacob George, ICT Pvt. Ltd.

Mr. Jigesh N. Bhavsar, ICT Pvt. Ltd.

Dr. Nishi Mittal, CSIR – CRRI

Dr. S. Velmurugan, CSIR – CRRI

Dr. K. Ravinder, CSIR – CRRI

The courses had exclusive components of practical audit works in groups guided by mentors, which provided real world audit experience to the participants. Through strict attendance and evaluation test 39 participants have been certified as auditors, while 7 participants have received certificate of participation as they did not meet the qualification and experience criteria for selection to the Auditors’ Course, but wanted to attend anyway. The fee charged for the course was a subsidized by IRF (India Chapter).

The course was conducted with strict requirement of the attendance as 90% minimum and a pass in the final evaluation test. All the participants for the certification courses fulfilled the requirements at a level much above the requirements. The samples of the certificates issued to the participants of the two courses as certified auditors are shown in **Annexure IV**. The course material is given to the participants at the beginning of the course as a bound volume. In addition, they have been given a CD also with complete set of course materials, along with the Austroad RSA Checklists and the Checklist

of IRC Manual for Road Safety Audit. The get up of these course materials are shown in **Annexure V**.

At the end, the courses were also evaluated by the participants, and the report of evaluation is given separately for each course in **Annexure VI**, while the format used for evaluation is given in **Annexure VII**.

The group photographs of the participants and the faculty for the two training courses are given in **Annexure VIII**.

The conduct of the courses in class room lectures as well as site visits for actual audit works were captured in photographs as shown in **Annexure IX**.



Annexures



APPLICATION FORMAT (RSA CERTIFICATION COURSE: MAY 2013)**Organised by: IRF India Chapter, ARRB and CRRI**

(Enclose a brief 2 page CV with details of experiences)

Course Applied: **20th-24th May 2013** **27th-31st May 2013**

Sl. No.	Particulars	To be Filled by Applicant
1	Name in CAPITAL LETTERS	
2	Sponsoring Organization	
3	Designation	
4	Address & telephone/ email etc. for correspondence:	
5	Mobile No.	

6. Educational qualification(s) (from graduation onwards)

Sl. No.	Degree/Examination Passed	University/Institution	Year of passing	Class/Grade

7. Employment

Sl. No.	Position held	Period (From- To-)	Organization / Department / Ministry

Signature of the Applicant_____
Signature of Sponsoring Authority with Seal

* Give details of experience in Traffic & Transportation in the 2-page CV to be enclosed

Certification Course for Road Safety Auditors



Venue: Council Hall, Central Road Research Institute, New Delhi

Day-1 (20st/27th May 2013)	
Time	Details of Topics
08.30 Hrs	Registration
09.30-10.00	Welcome and Inauguration of the Course
10.00-10.15	Tea/Coffee
10.15-11.00	Road Safety in India – An Overview
11.00-11.30	Characteristics of Road Accidents in India
11.30-11.45	Tea/Coffee
11.45-12.30	Planning for Road Network, Land Use and Road Environment for Safety
12.30-13.15	Designing for Safety: Road Link Design
13.15-14.15	Lunch
14.15-14.45	Designing for Road Safety: Junctions
14.45– 15.30	Road Safety Audit - An Introduction
15.30 – 15.45	Tea/Coffee
15.45-16.30	Design Stage Road Safety Audit
16.30 -17.30	Detailed Design Audit – In-office Audit – Audit of an Example Design
17.30-17.55	Detailed Design Audit – In-office Audit & Preparation of Report
17.55-18.00	Summary of Day-1 & Briefing for Day-2
18.00 Hrs	Close of Day-1

Certification Course for Road Safety Auditors



Venue: Council Hall, Central Road Research Institute, New Delhi

Day-2 (21st/28th May 2013)	
Time	Details of Topics
09.00-09.30	How to Conduct Road Safety Audit: An International Perspective
09.30-10.00	Road Safety Audits of Land Use Developments
10.00-10.30	Construction Zone Safety & Pre Opening Audit
10.30-11.00	Traffic Control Devices & Safety Needs of Different Road Users
11.00 – 11.15	Tea/Coffee
11.15 -11.45	Introduction to Crash Investigation and Analysis
11.45 – 12.15	Human Factors Relating to Crashes
12.15 – 12.45	The Steps in Treatment of Crash Locations
12.45 – 13.15	Diagnosing the Crash Problem
13.15-14.00	Lunch
14.00 – 14.45	Crash Problems into Solutions & Accident Costing / Economic Appraisal
14.45 -15.15	Writing the Crash Investigation Report
15.15 – 15.45	Tea/Coffee
15.45 – 16.15	Hazard Management with Respect to Road Safety
16.15 – 16.30	Road Safety Toolkit
16.30-17.55	Group Presentations on RSA of Design, 10 Minutes per Group
17.55-18.00	Summary of Day-2 & Briefing for Day-3
18.00 Hrs	Close of Day-2

Certification Course for Road Safety Auditors



Venue: Council Hall, Central Road Research Institute, New Delhi

Day – 3 (22nd/29th May 2013)	
Time	Details of Topics
09.00-09.30	Street Lighting & Traffic Signals
09.30-10.00	Safety Issues for VRUs in India
10.00-11.15	Pedestrians and people with disabilities & Road Safety Audit – Cyclists
11.15-11.30	Tea/Coffee
11.30-12.30	Road Signs and Pavement Markings
12.30-13.15	iRAP Introduction
13.15-14.15	Lunch
14.15-14.45	Safe System Approach
14.45-15.15	Speed Management & safety
15.15-16.00	Utilizing Speed Limits & Speed Zone Signing
16.00-16.15	Tea/Coffee
16.15-16.45	Infrastructure required to support speed feedback and enforcement
16.45-17.30	Organizational Commitment Towards Road Safety Audit
17.30-17.45	Road Safety Audit Checklist
17.45-18.00	Summary of Day-3 & Briefing for Day-4
18.00 Hrs.	Close of Day-3

Certification Course for Road Safety Auditors



Venue: Council Hall, Central Road Research Institute, New Delhi

Day – 4 (23rd/30th May 2013)	
Time	Details of Topics
09.00-11.30	Existing Roads Audit –Site Visit (An Example Stretch of Road)
11.30-11.45	Tea/Coffee
11.45-13.15	Audit of Grade Separated Intersection (Site Visit)
13.15-14.00	Lunch
14.00-14.45	Construction Zone Audit – Site Visit
14.45-15.30	Preparation of the Audit Reports
15.30-15.45	Tea/Coffee
15.45-17.45	Preparation of the Audit Reports
17.45-18.00	Summary of Day-4 & Briefing for Day-5
18.00-20.00	Night-time Audit (Site Visits)
20.00 Hrs	Close of Day-4

Certification Course for Road Safety Auditors



Venue: Council Hall, Central Road Research Institute, New Delhi

Day – 5 (24th / 31st May 2013)	
Time	Details of Topics
09.00-09.30	Risk Assessment & Ranking Audit Recommendations
09.30-10.00	Solutions and Percentage Effectiveness & Corrective Action Reports
10.00-10.30	Preparation of the Audit Reports (Report of Day 4 Work)
10.30-11.30	Evaluation Test
11.30-11.45	Tea/Coffee
11.45-13.15	Presentation & Discussion of RSA Report by Groups: 30 Minutes for Each Group
13.15-14.00	Lunch
14.00-15.30	Presentation & Discussion of RSA Report by Groups; 30 Minutes for Each Group
15.30-16.00	Course Evaluation
16.00-16.30	Tea/Coffee
16.30-16.45	Group Photograph
16.45-17.30	Closing Function & Certificate Distribution
17.30- 17.45	Closing Remarks & Dispersal

Note: *All Example Audits and Preparation of Report shall be in Groups of 4-5 participants of the Course and there shall be five Groups out of 30 participants. There will be one mentor assigned to each Group to guide and assist throughout the Course.*

**IRF (INDIA), ARRB & CRRI - CERTIFICATION COURSE FOR ROAD SAFETY AUDITORS
(20- 24th May 2013)**

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**IRF, ARRB & CRRI CERTIFICATION COURSE FOR ROAD SAFETY AUDITORS
(27 – 31st May 2013)**

LIST OF PARTICIPANTS & FACULTYS

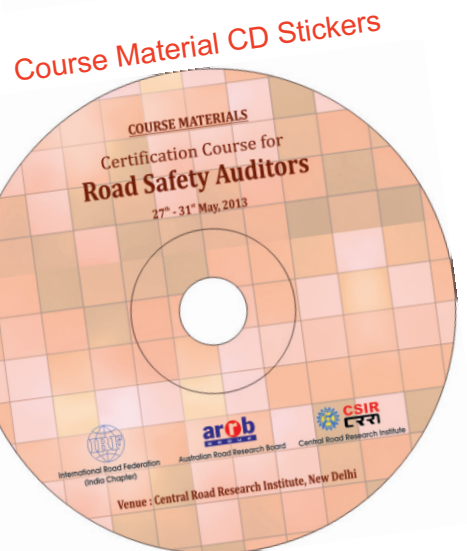
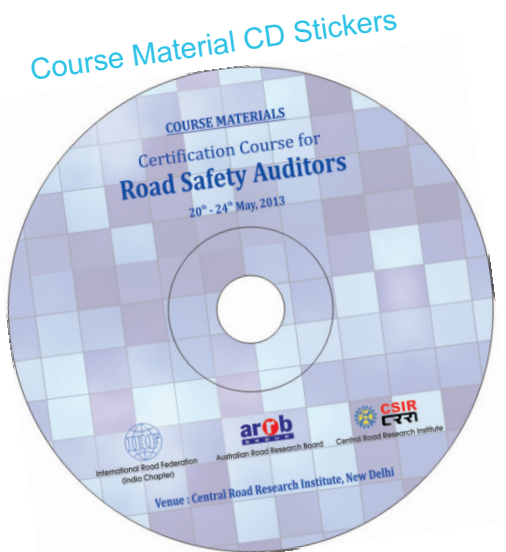
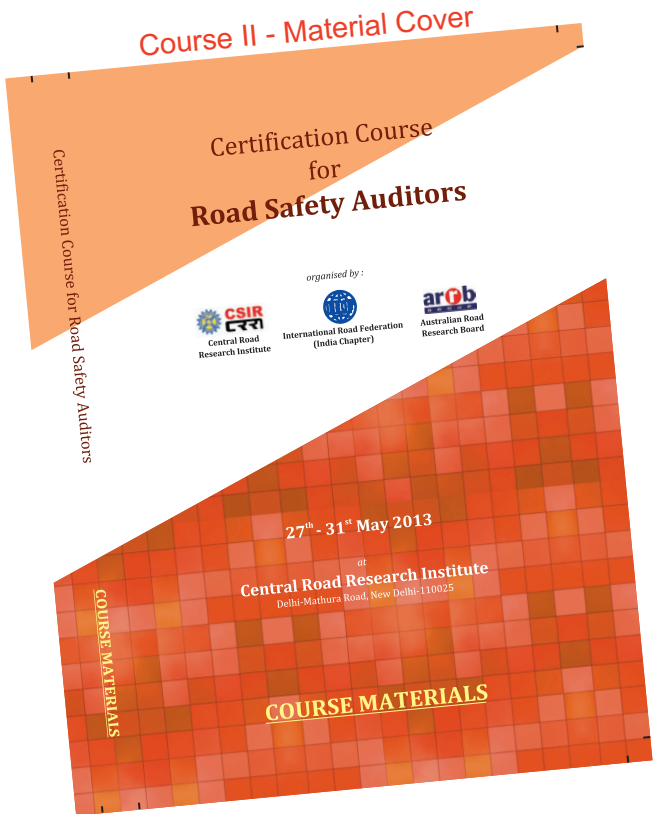
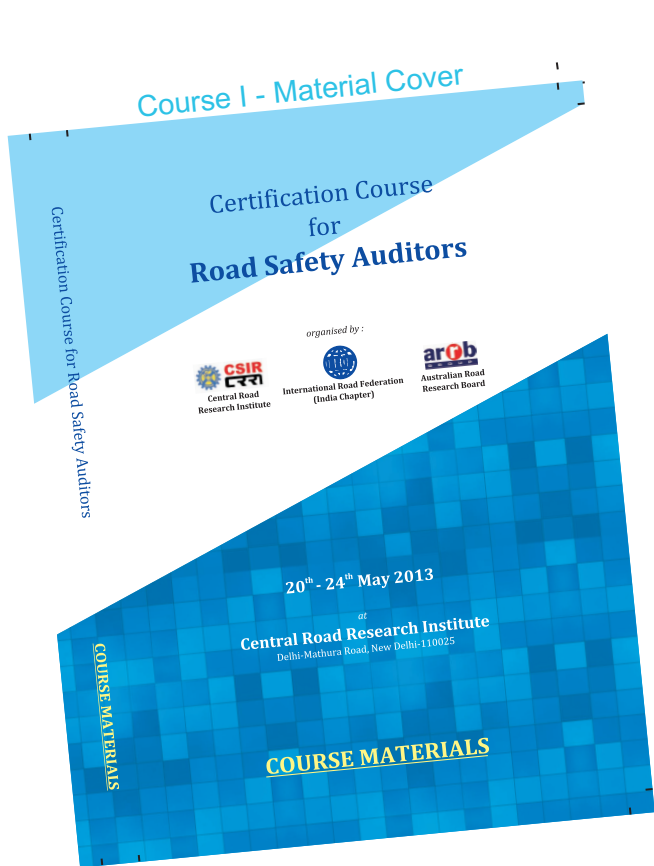
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Course II- Certificate





RSA Course Evaluation

The training course was evaluated at the end of program. All the trainees were requested to fill in the Course Evaluation form given in **Annexure VII**. The responses given by all the trainees were evaluated in quantitative and qualitative terms and these are presented below.

RSA Course Evaluation – Course I

PART – I: Quantitative Evaluation

1. The course provided useful information/knowledge
90% strongly agree, 10% agree
2. The content of course was relevant and useful
80% strongly agree, 20% agree
3. The course structure was apt
45% strongly agree, 45% agree, 10% neutral
4. The course responded to the expectations
55% strongly agree, 35% agree, 10% neutral
5. The quality of the presentations was high
55% strongly agree, 40% agree, 5% neutral
6. The design audit exercise was helpful
50% strongly agree, 45% agree, 5% neutral
7. The audit site visits and the report preparation exercise was useful
65% strongly agree, 35% agree
8. Gained confidence to undertake road safety design audit independently
55% strongly agree, 45% agree
9. Gained confidence to undertake construction zone safety audit independently
65% strongly agree, 35% agree
10. Gained confidence to undertake existing road safety audit independently
55% strongly agree, 40% agree, 5% neutral
11. Time for interaction was adequate
45% agree/strongly agree, 40% disagree and 15% were neutral

PART – II: Qualitative Evaluation

Comments regarding the program of the course (subjects that have been discussed or should have been, presenters, etc...)

- The all five day program was so knowledgeable that it changed our vision and approach towards Road Safety.
- Number of presentations could be more. The duration of few presentations like technical detailing of signage could have been reduced.
- The program was meticulously designed. Presenters have been carefully selected and they explained the topics in depth.
- Subjects were discussed well. More site visits are required.
- Lecture/ program on Economic analysis should be added
- Program, syllabus, audits was very structured and well designed in short span of time
- Program was useful as it may call for higher level officers for awareness of such issues.
- Program should also include topics like “Motor Vehicle Act.”
- Road Safety issues on Hills Roads should also been discussed and presented.

Comments regarding the organization of the course

- Night time audit is a novel idea; it could be enhanced more for fruitful results.
- Course was organized systematically.
- Such program should be conducted more often to provide nation with better qualified road auditors.
- Excellent organization clubbed with adjoining site visits; availed maximum time efficiency and interest.
- Organized well, but the schedule was very hectic.
- Time for site visit is to be increased.
- Highly professional, nice material to study.

What do you consider as the greatest benefit you gained in attending this course?

- Enhanced perception of the safety concern in Road safety audits.
- Will be able to do road safety audit independently.
- Will be able to make the ISO 39001 audits more technical.
- Greatest benefit will be in construction supervision and designing
- Felt that more responsibility lies on engineers for creating road safety assurance to road users. It’s our professional and social responsibility also.
- Gained confidence to carry out RSA independently, and really opened third eye.
- Beneficial in implementing ADB funded State Road Project.
- Helpful in evaluating shortcomings of projects and remove them.

Suggestions for improvement in the RSA courses to be conducted in future

- More time can be devoted for site visit.
- Time may be extended for incorporating more comprehensive interactive sessions and site visits
- Length of the course may be increased and some more classes may be included.
- Extra time for report writing.
- It must include behavior based training.
- Road safety issues were discussed mainly for higher category roads NH, express highway, and not of rural roads. The material was not fully relevant in Indian context. Indigenous low cost anti-theft material should be developed by CRRI so that same can be used uniformly on rural roads (PMGSY).
- More suggestions on how to deal day to day increasing accidents.
- A prior information or feedback might be useful.
- Such crash courses should be held at state level which will enlighten people.

RSA Course Evaluation – Course II

PART – I: Quantitative Evaluation

1. The course provided useful information / knowledge
70% strongly agree, 30% agree
2. The content of course was relevant and useful
56% strongly agree, 44% agree
3. The course structure was apt
48% strongly agree, 43% agree, 9% neutral
4. The course responded to the expectations
44% strongly agree, 43% agree and 13% neutral
5. The quality of the presentations was high
65% strongly agree, 22% agree and 13% neutral
6. The design audit exercise was helpful
61 % strongly agree, 35% agree and 4% neutral
7. The audit site visits and the report preparation exercise was useful
57% strongly agree, 39% agree and 4% neutral
8. Gained confidence to undertake road safety design audit independently
35% strongly agree, 57% agree and 8% neutral
9. Gained confidence to undertake construction zone safety audit independently
30% strongly agree, 61% agree and 9% neutral
10. Gained confidence to undertake existing safety audit independently
43% strongly agree, 52% agree and 5% neutral
11. Time for interaction was adequate
35% strongly agree, 56% agree, 5% neutral and 4% were disagree

PART – II: Qualitative Evaluation

Comments regarding the program of the course (subjects that have been discussed or should have been, presenters, etc...)

- The Program of this course is prepared very carefully so that it gives maximum output to the aspirants.
- Course duration needs to be extended by one day atleast with same course contents
- This program gives me the right idea about safety and the importance of life of the people using roads.
- Content of the course still have room to cover more exercise towards crash investigation by keeping this course for 7 days instead of 5 days.
- This program should be made compulsory for all organizations dealing with Road Infrastructure.
- Presenters were excellent and very passionate about road safety.
- Design elements of intersection, junctions be given more importance.

Comments regarding the organization of the course

- Well organized & structured course. Course material is also upto-dated.
- The faculty members chosen by the organization are experts in their field
- The course is an eye opener as far as road safety is concerned. The interaction and relationship will be carried forward.
- Timely designed course by the organization like IRF, ARRB and CRRI.

What do you consider as the greatest benefit you gained in attending this course?

- Gained confidence to conduct Road Safety Audits.
- Benefitted by fundamental understanding of the Road Safety and its implementation in the field.
- Will help to improve in reduction of hazardous incident.

Suggestions for improvement in the RSA courses to be conducted in future

- The RSA course should be at least two weeks or more so that more practical coverage should be there.
- Such course should be conducted in state capitals. “Human Factor” may be dealt a bit extensively.
- Bring in the element of Automotive Engineering, Enforcement, Emergency Care and Education equally with civil engineering side.
- Informing participants in advance to carry laptops and camera along with them.
- Course material book should be printed in color for better understanding.
- Arrangement should be for more interaction and visualization.

RSA CERTIFICATION COURSE- COURSE EVALUATION FORM

1. Please indicate the level of agreement and most accurately reflects your opinion of the course:

(Scale: 5= Strongly agree, 4= Agree, 3= Neutral, 2=Disagree, 1=Strongly disagree)

The course provided useful information/knowledge.	5	4	3	2	1
The content of the course was relevant and useful.	5	4	3	2	1
The course structure was apt.	5	4	3	2	1
The course responded to my expectations	5	4	3	2	1
The quality of the presentations was high.	5	4	3	2	1
The quality of the design audit exercise was helpful	5	4	3	2	1
The audit site visits and the report preparation exercise was useful	5	4	3	2	1
Gained confidence to undertake road safety design audit independently	5	4	3	2	1
Gained confidence to undertake construction zone safety audit independently	5	4	3	2	1
Gained confidence to undertake existing road safety audit independently	5	4	3	2	1
Time for interaction was adequate.	5	4	3	2	1

2. What are your comments regarding the program of this course (subjects that have been discussed or should have been, presenters, etc...) ?

3. What are your comments regarding the organization of this course?

4. What do you consider as the greatest benefit you gained in attending this course?

5. Any suggestion you wish to make regarding RSA courses for improvement of future events?

Thank you for your feedback. Your comments and suggestions will help us to improve future courses.

Name:

Address:

Contact no.:

Note: For extra space for any item of this evaluation form, please use the reverse of this page.

**CERTIFICATION COURSE FOR ROAD SAFETY AUDITORS
IRF - ARRB - CRRI
20 - 24 MAY, 2013**



**CERTIFICATION COURSE FOR ROAD SAFETY AUDITORS
IRF - ARRB - CRRI
27 - 31 MAY, 2013**



Photographs from the Course I



Course Inauguration: Prof. P. K. Sikdar Speaking at Inauguration



Course Inauguration: Director, CRRI Speaking at Inauguration



Lecture in Progress



Design Audit being Supervised



Design Audit being carriedout by Participants



Instructions for field Audit in progress



Audit Team with Mentor



Night time Audit in Progress



Tea/Coffee Break



Lunch During Course Days



Lunch During Course Days



Presentation of Group Audit Report



Comments/suggestions on Audit Report



Mr. Paul Hillier, ARRB giving comments on Audit Report



Evaluation Test in Progress



Visit to CRRI Laboratories



Visit to CRRILaboratories



Course Evaluation in Progress



Concluding Session



Concluding Session



Concluding Session: Participants' Response



Certificate being Presented

Photographs from the Course II



Course Inauguration: Prof. P. K. Sikdar Speaking at Inauguration



Course Inauguration: Director, CRRI Speaking at Inauguration



Course Inauguration



Lecture in Progress



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Audit Team with Mentor



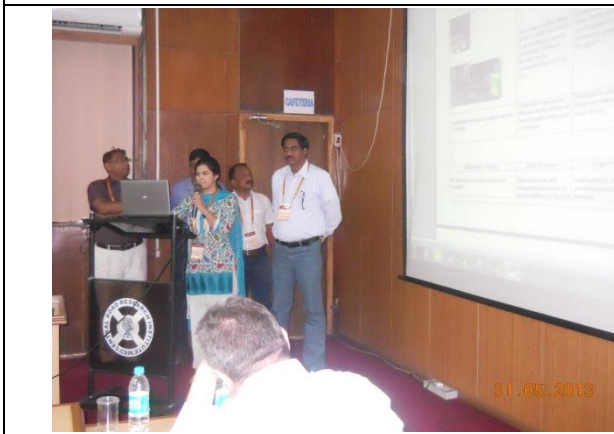
Night time Audit in Progress



Tea/Coffee Break



Lunch During Course Days



Presentation of Group Audit Report



Dr. K. Ravinder, CRRI giving comments on Audit Report



Mr. Paul Hillier, ARRB giving comments on Audit Report



Visit to CRRI Laboratories



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Concluding Session



Certificate being Presented



Certificate being Presented