

MINUTES OF THE APT STEERING COMMITTEE MEETING
GAUTENG DEPARTMENT OF PUBLIC TRANSPORT, ROADS & WORKS

19th February 2008

08:30 – 15:00

PRESENT:					
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Piet Myburgh	Sabita			082 883 5960	pmyburgh@ffq.net
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APOLOGIES:					
Name	Representative	Telephone	Fax	Cell	E-mail
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Fred Hugo	ITT/University of Stellenbosch	021-8084364	021-8084361	082 652 5824	fhugo@sun.ac.za
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1 WELCOME, PRESENT AND APOLOGIES

Ms Sadzik welcomed members to the Steering Committee meeting and highlighted the items on the agenda.

The minutes of the previous meeting were accepted as correct.

2 STATUS REPORT ON PROGRESS RELATED TO PRIORITIES AND ACTION PLAN

Ms Sadzik presented a progress report on the status of projects related to the priorities and action plan for the strategy. The presentation is shown in Appendix A. The following items were noted:

- SIM testing: Ms Sadzik requested Mr Verhaeghe to liaise with Dr de Beer to ensure that practical outputs were available from the testing that could be used by industry.
- Rut-resistant mixes: Three mixes would be produced, laid and tested from the end of February 2008:
 - East Rand mix with improved aggregate packing based on Bailey principles and 60/70 binder;
 - East Rand mix with improved aggregate packing based on Bailey principles and 40/50 binder (submitted as the mix designed to meet the rut mix challenge);
 - West Rand mix with improved aggregate packing based on Bailey principles and 60/70 binder (also submitted as the mix designed to meet the rut mix challenge).

BV

3 PROJECT FEEDBACK**HMA Testing: HVS and Laboratory**

The presentation from Dr Steyn is shown in Appendix B. The following was noted:

- The APT testing on the standard mix is almost complete and the final report of laboratory and APT testing will be completed by the end of March 2008.
- It was agreed that a workshop with relevant experts should be held in April 2008 to evaluate the results on the standard mix. CSIR will send the report to the relevant people prior to the workshop for comment and discussion at the workshop.
- HMA testing of rut resistant mixes will consist of 6 weeks of uni-directional testing and 2 weeks of bi-directional testing over the 8 weeks of testing for each mix.
- Construction of the rut resistant mixes had been delayed due to inclement weather which had also impacted on the HVS testing programme. The first rut-resistant mix was scheduled for construction at the end of February 2008 to allow testing to begin at the end of March 2008. It was agreed that a meeting should be convened between the relevant parties to discuss the revised testing programme and logistics for construction of the test sections.

ES
WS

ES/LS/TD

HiMA on R80

The presentation on the HiMA from Prof Horak is shown in Appendix C. The following was noted:

- Mr Myburgh was requested to liaise with Mr Distin regarding the design of the HiMA mix and the testing schedule. These issues should be included in the planning meeting scheduled between the relevant parties for the rut-resistant mixes.
- The blue HVS machine should become available by the end of April 2008 and could be used for testing the HiMA sections, should the design and construction be completed by that time. Mr Myburgh was requested to discuss this with Mr Distin in preparation for the planning meeting to be organised before the end of February 2008.

PM

PM

Bitumen Stabilisation, Phase II

Feedback on phase II of the bitumen stabilisation project was given by Mr Myburgh (mix design on behalf of Prof Jenkins) and Dr Long (structural pavement design). The following points were noted:

Mix Design (see presentation in Appendix D.i)

- Some of the tasks for the mix design section were approximately 2 to 3 months behind schedule which should not affect the finalisation of the bitumen stabilisation manual scheduled for the end of August 2008.
- It was suggested that a workshop on the mix design component should be held before the final guideline is processed to allow for initial comment to be collected.
- Prof Jenkins should submit a detailed progress report by the end of March 2008.

LS/KJ/PM
KJ**Structural Pavement Design (see presentation in Appendix D.ii)**

- The method used to validate the structural design and materials classification methods proposed as part of the project outcomes was accepted by the Steering Committee.
- In order to assist Dr Long with information to populate the database, Mr Rossmann and Ms Sadzik agreed to ask the road authorities to supply relevant data.

DR/ES

Phase III: Production of Bitumen Stabilisation Manual

- Although the mix design section of phase II was behind schedule, it was anticipated that this should not affect the production of the final manual scheduled for the end of August 2008. A planning meeting between Dr Long, Prof Jenkins and Mr Sampson was being organised to discuss phase 3 of the document.
- Dr Long was ready to start phase III from 1 April 2008 and would approach Messrs Collings (foam) and Thompson (emulsion) to write the construction section for the manual.
- Gautrans are committed to funding phase 3 of the project subject to the contract for technology development with the CSIR being signed.

LS/KJ/FL

FL

Labour-intensive construction manual

Mr Sampson gave feedback on the manual for labour-intensive construction and the presentation is attached as Appendix E. The following points were noted:

- The draft manual is scheduled for completion by the end of March 2008.
- It was agreed that a seminar should be organised to feed back the findings of the project once the manual had been finalised.

LS

SANRAL Pavement Design project

Mr Kannemeyer gave feedback on the SANRAL structural pavement design project. The following was noted from the feedback and discussion:

- The reports from the local and international peer review groups have been received and the project is being reviewed and revised in line with the comments.
- The consolidated overview of the project is now being finalised and will be distributed for comment by the end of February 2008 and a feedback meeting will be scheduled during March 2008.
- No project work is being undertaken at the moment and should start in April 2008.

LK

Thin Layer Concrete Testing – Heidelberg

The feedback on the thin layer concrete testing in Heidelberg was given by Mr du Plessis. The presentation is attached as Appendix F. The following points were noted:

- Two lanes of thin layer reinforced concrete have been included in the tender for M12 rehabilitation between Gilloolys Interchange and the R24 intersection. Tenders have closed (R1.5 billion) and construction is scheduled to be started in April 2008.

4 APT STRATEGY

Mr Sampson presented the APT strategy for 2006/09 (Appendix H) for review. The following was noted from the discussion:

- With regard to sustainable development and the environment, consideration should be given to include projects related to the following:
 - Alternative materials for construction including RAP;
 - Warm mix technology;
 - Construction processes;
 - Quality of construction and sustainability.
- Mr Sampson will amend the current strategy in line with the discussions for use until March 2009. A major strategy review should be planned to ensure the revised strategy is available for the start of the 2009/10 financial year.
- Another technology symposium will be held when sufficient information is available for feedback to the industry.

LS

5 REPORTS FOR COMMENTS AND REVIEW (Appendix I)

The following reviewers were agreed for draft reports to be circulated by Dr Steyn:

- HMA study – end of March for comment end of April 2008:
 - Mr Arthur Taute
 - Mr Dennis Rossmann
 - Mr Les Sampson
 - Ms Elzbieta Sadzik
 - Mr Joe Grobler (jnr)
 - Sabita
- Bitumen Stabilisation (interim report for end of March)
 - Mr Dave Collings
 - Mr Benoit Verhaeghe
 - Mr Hugh Thompson
 - HVS project management team

WS/Reviewers

- LIC manual
 - Dr Simon Oloo
 - EPWP (Ms Sadzik will give the report to an appropriate person)
 - Rodney Burrell

ES

6 HVSIA MEETING

The next meeting was planned for July 2008 in the USA. Prof Harvey will provide three dates for agreement. The venues are likely to be in Berkley & Davis.

A video conference is being held during the week of 25 February 2008 where the date and place of the meeting will be discussed further.

7 OTHER APT INITIATIVES

TRB MMLS User Group

MMLS

On behalf of Prof Hugo, Mr de Vos presented an overview of the MLS which is attached as Appendix G. For further information on the bibliography, contact Prof Hugo at fhugo@sun.ac.za.

8 OTHER BUSINESS

None.

9 DATE OF NEXT MEETING

The date of the next meeting will be advised.

ES

Appendix A

**Status Report on Progress Related to Priorities and
Action Plan**

E Sadzik

Appendix B

Project Feedback: HMA Testing

W Steyn

Appendix C

HiMA

E Horak

Appendix D.i

Project Feedback: Bitumen Stabilisation, Phase II Mix Design

P Myburgh

Appendix D.ii

**Project Feedback: Bitumen Stabilisation, Phase II
Structural Pavement Design**

F Long

Appendix E

Project Feedback: Labour-intensive construction manual

L Sampson

Appendix F

**Project Feedback: Thin Layer Concrete Testing -
Heidelberg**

L du Plessis

Appendix G

Overview of the MLS

E de Vos

Appendix H

APT Strategy

L Sampson

Appendix I

Reports for comment & Review

W Steyn