

HEAVY DUTY ASPHALT PROCUREMENT SYSTEM REVIEW

System Element	TMR	RMS	Comments/Questions
General Conditions of Contract	<p>Three procurement scenarios:</p> <ul style="list-style-type: none"> Road construction contracts are based on AS2124 (MR Form 6830). Performance based contracts are based on AS2124 (MR Form 6830.RPC) Minor works are based on AS4905 (MR Form 6994). 	<p>Two procurement scenarios:</p> <ul style="list-style-type: none"> Asphalt incorporated into projects delivered by RMS's commercial division is invariably produced and placed by asphalt panel contract members in accordance with RMS's Asphalt Panel Contract which is based on GC21. Asphalt incorporated into projects delivered by private industry is invariably manufactured and placed by subcontractors to the principal contractor in accordance with either AS2124 or AS4000 and must also comply with the terms and conditions bound into the head contract between RMS and the principal contractor. 	<ol style="list-style-type: none"> Does the scope of ICDCS Project 3.1 include reviewing each of these procurement models and AS2124, AS4509 and GC21? Do TMR intend to procure asphalt supplied to all projects through a panel contract?
Supplementary Conditions of Contract	<p>MR Form C6838 specifies the supplementary conditions that apply to Road Performance contracts.</p> <p>MR Form C6836 specifies the supplementary conditions that apply to Road Construction contracts.</p> <p>MR Form C6996 specifies the supplementary conditions that apply to minor works contracts.</p>	<p>RMS QA Specification G2 details the supplementary conditions of contract and amendments to GC21 that apply to its asphalt panel contract.</p>	<p>Does the scope of ICDCS Project 3.1 include comparing and contrasting C6838, C6836, C6996 and the version of RMS QA Specification G2 bound into RMS's Asphalt Panel Contract?</p>

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Special Conditions of Contract	Annexures MRTS30.1 and MRST31.1 specify the special conditions that apply to individual asphalt contract.	RMS QA Specification G1 specifies job specific requirements that apply to all Asphalt Panel Contract projects. Annexures R116/A details specific requirements for individual Asphalt Panel Contract projects.	Does the scope of ICDCS Project 3.1 include reviewing the version of RMS QA Specification G1 bound into RMS's Asphalt Panel Contract?
Supplier Registration	Main Roads Project Delivery System Manual (MRPDS), Volume 3, Cl. 4.2 requires asphalt manufacturers and pavers to be prequalified in accordance with the framework in MRPDS, Volume 3, Appendix H. TMR's National Prequalification Scheme Guidelines requires asphalt manufacturers and pavers to pre-qualified to category R2.	RMS specification G1, Cl. 6.2.2 specifies that asphalt panel members are required to be prequalified to A1 or A2 with F1 when supplying up to 2,000t/visit through to F5 when supplying > 10,000t/visit.	Does the scope of ICDCS Project 3.1 include reviewing asphalt supplier pre-qualification requirements?

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Design Mix Registration	<p>Design mixes are presently certified by TMR's Principal Chemist at Herston. Registered asphalt suppliers presently submit samples of the mix constituents to TMR. These are mixed and tested by TMR at the tolerance limits to verify that the design mix complies with the requirements of MRTS31 and MRTS30 as applicable. This process is labour intensive and is expected to be abandoned in favour of the system that RMS has adopted where asphalt suppliers submit test result on design mixes to RMS for its approval and registration at least 7 days prior to supplying the mix to projects.</p>	<p>Two scenarios:</p> <ul style="list-style-type: none"> Asphalt mixes supplied to projects delivered by RMS's commercial division are centrally registered by RMS's Asphalt Operations Section at Yennora (AOS). Asphalt mixes supplied to projects not constructed by RFS are approved by the principal in accordance with R116, Cl. 2.3.1. RMS's project manager has the right to question the suitability of the design mix but only does so if he genuinely believes that the mix does not meet the contracted durability, performance or technical requirements. 	<p>Who within TMR would be responsible for approving and registering design mixes if TMR was to adopt RMS's asphalt procurement system?</p> <p>Ask RMS who approves mix designs on projects not constructed or maintained by RMS's commercial division.</p> <p>Ask RMS what is likely to happen to its asphalt panel contract (and AOS) when all metropolitan road maintenance contracts are outsourced after July 2013.</p>
Defects Liability Period	<p>Main Roads Project Delivery System Manual (MRPDS), Volume 2, Appendix C states that TMR's current policy is to limit the defects liability period to 90 days unless there are unusual project circumstances that would justify a longer period.</p> <p>MR Form 6832.RPC (Annexure Part A to AS2124) specifies that the defects liability period is 90 days.</p>	<p>R116, Cl. 1.1 specifies that asphalt must not ravel, rut, shove, strip or bleed and must not deviate by more than 8mm below a 3m straight edge during the first 12 months after the date of practical completion. R116, Cl. 5.5 specifies that non-conforming lots that are not accepted must be rectified and replaced. A 12 month defects liability period is inferred.</p>	<p>MRPDS, Volume 1 Section 5.4.1.4 acknowledges that short defects liability periods encourage producers to use the cheapest materials available that comply with the quality specification and other contractual requirements.</p>

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Warranty Period	Warranty agreements may be bound into contracts using MR Form C6858. Warranty agreements specify the circumstances under which the product will be replaced or repaired during the warranty period.	Clause 20 in RFS's Asphalt Panel Contract Specification G1 specifies a 12 month warranty period for rutting and a 24 month warranty period for stripping, ravelling and bleeding applies to asphalt.	What percentage of TMR projects have warranty agreements bound into contracts? Are asphalts delivered to projects with a warranty agreement more durable than those that only have a 90 day defects liability period?
Retention/Completion Amount	MRPDS, Volume 2 recommends retaining 20% of the contracted price when the defects liability period is 90 days and reducing the amount of retention security to 10% on projects with a 9 month defects liability period.	GC21, Clause 64 specifies that a completion amount is payable to the contractor upon defect free completion of the work when the value of the completed work exceeds 50% of the Contract Price. The Completion Amount specified in Asphalt Panel Contract G2 Specification Clause 60 is \$Nil as Specification G1, Clause 20 in RFS's Asphalt Panel Contract specifies that the Panel Member shall "promptly" rectify all defects that occur during the warranty period.	Ask RMS what completion amounts that it retains for the duration of the warranty period on projects delivered by contractors other than RFS.
Quality System	TMR contracts invariably require asphalt suppliers to design, implement and maintain a quality system that complies with MRTS50.	Clause 22 of RMS Asphalt Panel contract Specification G1 requires each panel member to design, implement and maintain a quality system that complies with RMS general QA specification Q6.	RMS QA specification Q6 is a weightier document than MRTS50. The Guidance Notes to Q6 advise that Q6 is tended for use on projects with a value over \$1million that require the contractor to have, as a minimum, a quality system that conforms to ISO9001.

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Technical Standards/Specifications	<p>TMR specifies in MRS31 and MRS30:</p> <ul style="list-style-type: none"> the asphalt supply pay items its acceptance requirements the circumstances when TMR will pay more or less than the tendered rate for asphalt <p>TMR specifies in MRTS31 and MRTS30 the technical standards that asphalt shall meet. The annexures to MRTS31 and MRTS30 specify specific requirements that apply to individual projects.</p> <p>The quality system requirements that apply are specified in MRTS01 and in TMR's asphalt manual.</p>	<p>RMS specifies in the following specifications, the technical standards requirements (including the contents of the project quality plan) that asphalt suppliers must meet:</p> <ul style="list-style-type: none"> R116 – heavy duty asphalt R119 – open graded asphalt R121 – stone mastic asphalt R123 – Thin Open Graded Asphalt <p>The annexures to the above specifications specify job specific requirements that apply to individual projects.</p>	<p>The key requirements of RMS's and TMR's technical standards and specifications are reviewed in ICDCS Doc. No. F3003-AA005602-AAR-1.</p>

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Quality System	<p>The quality system that asphalt suppliers will be required to design, implement and maintain will depend on whether MRST50 is bound into the supply contract. If it is then supplier must design, implement and maintain a system that conforms to MRTS50. Otherwise, asphalt suppliers may only be required to develop and implement generic quality plans that include the quality system elements listed in MRTS30, Cl. 5.</p> <p>Approved Asphalt Suppliers are also obliged to manage the quality system elements specified in Section 8 of Main Road's <i>System of Registration of Approved Asphalt Suppliers</i>.</p>	<p>Two scenarios:</p> <ul style="list-style-type: none"> Asphalt Panel Contract members are required to submit and use approved generic quality plans that include the quality planning documents listed in R116, R119, R121 and R123 as applicable. On large D&C, DCM and alliance projects, asphalt suppliers are required to comply with the principal contractor's quality system and plans. Usually, these include or reference the asphalt producer's and/or paving contractor's quality plans. 	<p>TMR to confirm the minimum quality system requirements that will henceforth apply to asphalt suppliers.</p>

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