

PART 1: SCOPE OF WORK

Document reference	TITLE: FOR THE SUPPLY AND DELIVERY OF G2, G5, AND MEDIUM-GRADED AP1 ASPHALT FOR MAINTENANCE OF ROADS IN THE PORT OF RICHARDS BAY ON AN AS AND WHEN REQUIRED BASIS (AD HOC BASIS) OVER A PERIOD OF 3 YEARS	
C3.1	This cover page Employer's Works Information	
C3.2	Contractor's Works Information	

C3.1 EMPLOYER’S WORKS INFORMATION

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1 Description of the works

1.1 Executive overview

The Transnet National Ports Authority (TNPA) at the Port of Richards Bay requires a qualified contractor to supply and deliver Medium-Graded Hot Mix Asphalt (HMA), 37.5mm G2 Crusher Material, and G5 Subbase Material on an "as and when required" basis for routine and emergency road repairs within the port precinct. The contract duration is **36 months** from the date of the award.

Preference will be given to bidders with proven experience in the supply and delivery of asphalt and related road materials, especially those with evidence of swift turnaround times.

2 Materials Supply Requirements and Delivery Constraints

2.1 Materials to be Supplied

- 2.1.1 Medium-Graded Hot Mix Asphalt (HMA), compliant with COTO and SANS specifications.
- 2.1.2 37.5mm G2 Crusher Run material as per COLTO 1998 and SANS 3001 specifications.
- 2.1.3 G5 Subbase material suitable for road construction and maintenance, meeting TNPA requirements.

2.2 Delivery Logistics and Access Requirements

- 2.2.1 The contractor shall be responsible for transportation, offloading and site coordination.
- 2.2.2 Delivery vehicles must be roadworthy, equipped with reversing alarms, and operated by medically fit, licensed drivers.
- 2.2.3 TNPA will not provide material handling equipment.
- 2.2.4 Site access will be regulated. Contractors must comply with TNPA's access control protocols.

2.3 Compliance and Replacements

- 2.3.1 The contractor shall ensure that all material delivered is accompanied by weighbridge delivery notes and meets specification.
- 2.3.2 Any material found non-compliant shall be replaced within 48 hours at the contractor's cost.

3 Invoicing and Administrative Requirements

3.1 The contractor's Invoices

3.1.1 The contractor's invoice are to :

- a) Be addressed to Transnet National Ports Authority, Richards Bay
- b) Quote the VAT number: 4720103177
- c) Include contract and invoice numbers
- d) Include contract name:

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- e) Be supported by signed delivery notes and weighbridge documentation

3.1.2 Each delivery vehicle must be weighed at an approved weighbridge prior to dispatch. A weighbridge delivery note must accompany each delivery and be signed at the Delivery Site by a Transnet representative. The original signed front page must be retained by the Transnet official on site, while the duplicate copy must be kept by the contractor for submission with the invoice.

3.1.3 No advance payments will be made by TNPA for materials supplied by the contractor. Payments shall only be processed upon successful delivery of materials, accompanied by the necessary documentation and verification of compliance with the contract specifications.

3.1.4 The contractor shall not assign, transfer or sub-let the agreement or any part thereof, nor enter into any subcontract of whatsoever nature for the supply and delivery of materials, without the prior written consent of TNPA.

3.1.5 No amendment, variation, or addition to this agreement shall be of any force or effect unless reduced to writing and signed by both parties.

3.2 Delay Damages and Penalties for Late Delivery

3.2.1 In accordance with the Master Agreement provisions, TNPA shall impose penalty deductions for unjustified delays in delivery beyond the agreed-upon timeframes (typically 24–36 hours from official order), calculated based on the duration of delay as outlined below:

3.2.2 The total allowable delay period shall not exceed **10%** of the total contract duration (i.e. 109.5 days out of 1095 calendar days). Beyond this cumulative threshold, TNPA reserves the right to terminate the contract. The penalties are structured progressively as follows:

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Stage	Delay Days	Penalty Rate (ZAR/day)
Stage 1: Grace	0–30 days	R2,463.15
Stage 2: Escalation	31–67 days	R16,421.00
Stage 3: Termination	68–109 days	R30,378.85
Total	109 days	—

3.2.3 The above values are derived from a penalty cap of 10% of the contract value and are strictly non-negotiable. The daily penalty applies per calendar day of cumulative delay across the entire contract period.

4 Contractor's Works Information.

4.1 Asphalt:

4.1.1 Scope Description

- The appointed Contractor shall:
- Supply and deliver Medium-Graded AP1 Hot Mix Asphalt (HMA) in accordance with SANRAL COTO and SANS 12003 specifications.
- Ensure all deliveries are executed on an as-and-when-required basis, as instructed by TNPA, throughout the contract duration.
- Deliver to the official TNPA site at:

Transnet National Ports Authority
Pioneer Centre, San-Thom Road
Port of Richards Bay, Richards Bay, 3900
- Ensure asphalt is transported in thermally insulated trucks to maintain temperature during haulage.
- Accommodate flexible delivery times, including weekends, public holidays, and night deliveries based on TNPA's operational requirements.
- Ensure delivery is made within 24–36 hours of order confirmation by TNPA.

4.1.2 Documentation and Delivery Confirmation

For every batch delivered, the Contractor shall:

- Provide original delivery notes clearly stating:
 - Date and time of delivery
 - Quantity (in tons)
 - Batch number
 - Truck registration
 - TNPA receiving representative's name and signature
- Ensure a duplicate copy is retained and attached to the invoice for payment processing.

4.1.3 Product Requirements: Medium-Graded AP1 Asphalt

The asphalt supplied shall:

- Be manufactured in accordance with AP1 grading envelope (per COTO standards)
- Be suitable for medium-duty applications in road surfacing and patching.
- Exhibit the following properties:
 - Binder Content: 4.7%–5.5%
 - Aggregate Grading: Per COTO Table 4202/1 for Medium AP1
 - Mix Temperature at Delivery: 135°C – 160°C
 - Voids in mix and compacted layers: within COTO specification limits

4.1.4 Quality and Conformity

The Contractor shall:

- Provide asphalt test results (binder content, grading curve, stability/flow) on request.
- Replace, at own cost, any non-compliant or rejected material.

4.1.5 Safety and Environmental Compliance

The Contractor shall:

- Comply with the Occupational Health and Safety Act (85 of 1993).
- Maintain a site-specific Safety Plan, 16.2 appointment, and relevant legal appointee letters.
- Supply MSDS for the bitumen binder and any additives.
- Ensure clean and controlled delivery to avoid spillage or environmental damage.

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4.2 G2 Crusher Material:

4.2.1 Supply and deliver 37.5mm crusher run (G2) material. The material shall comply with the following sieve analysis below.

4.2.2 The supplied material shall comply with COTO.

4.2.3 Must conform to sieve analysis in COLTO 1998, COTO, and SANS 3001

4.2.4 Minimum dry density: 2210 kg/m³; OMC: 5.8%

4.2.5 PI < 6; LL < 25; PH > 6

G2 Material Specification			
Indicators			
Methods		SIEVE (mm)	COLTO 1998 "G2" (% Passing)
SANS 3001 -GR-1, GR-2, GR-5		100	
		90	
		75	
		63	
		50	
		37.5	100
		28	86-95
		20	73-86
		14	61-76
		5	37-54
		2	23-40
		0.425	11'-24
		0.075	4'-12
		GM	
		Soil Mortar Analysis	
		2.0 - 0.425 (CSR)	35-50
		0.425 - 0.250	
		0.250 - 0.150	
		0.150 - 0.075	
		< 0.075	
Arterberg limits			
SANS 3001 -GR-10		LL	<25
		PI	<6
		LS	<3
Chemical Analysis			
TMH 1: A20		PH	>6
TMH 1: A21T		Conductivity	>0.15
Maximum Dry and Optimum Moisture Content			
SANS 3001 -GR-30		MDD (kg/m ³)	2210
		OMC (%)	5.8
California Bearing Ratio -CBR			
SANS 3001 -GR-40		100% Compaction	>100
		98% Compaction	>100
		97% Compaction	>104
		95% Compaction	>70
Gravel Classification			
AASTHO Classification			A-1-a (0)
COLTO 1998			G2
ASTM (UNIFIED)			SM

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4.3 G5 Material:

4.3.1 Well-graded granular material suitable for subbase applications

4.3.2 Must meet SANS 3001-GR and COLTO guidelines for G5

4.3.3 Typical Grading Envelope:

TYPICAL GRADING ENVELOPE (G5) – COTO & TRH14:	
Sieve Size (mm)	% Passing (Min - Max)
63	100
37.5	95 – 100
19	80 – 95
4.75	45 – 75
0.425	10 – 30
0.075	4 – 12

4.3.4 Typical Characteristics:

Property	Specification
Material Type	Natural gravel, gravelly soil, or crushed rock
Maximum Particle Size	63 mm (per COTO)
Grading Envelope	G5 (as per TRH14 / COTO): Sieve Analysis below
Plasticity Index (PI)	≤ 6
Liquid Limit (LL)	≤ 25
CBR (California Bearing Ratio)	≥ 25% (after 4 days soaking)
Maximum Dry Density (MOD AASHTO)	≥ 1950 kg/m ³
Optimum Moisture Content (OMC)	Typically, 7% – 12%
Strength	Moderate
Application	Road subbase, selected layer
Compaction Requirement	≥ 95% Mod AASHTO (COTO compliant)

All materials must be accompanied by delivery notes indicating source, quantity (in tons), and specification compliance.