

SECTION 2.1: SPECIFICATIONS

A Main bidder with an alternative bidder will be appointed. If the main bidder cannot supply within the given time, the client can make use of the alternative bidder.

- 2.1.1. The Hessequa Municipality wishes to enter into a contract with a suitable supplier for the supply and delivery of prefabricated cold premix, hot mix asphalt and bitumen treated base for a contract period from tender award date until 30 June 2029.

2.1.2. Conditions:

- 2.1.2.1 Material will be ordered as and when required.
- 2.1.2.2 Bidders are required to indicate the delivery period (Section 3.2 – MBD1) after the receipt of an official order.
- 2.1.2.3 If the successful (preferred) bidder cannot or does not deliver the prefabricated cold premix, hot mix asphalt and bitumen treated base within the delivery period as indicated, the bidder must inform the Municipality in writing of delays in delivery.
- 2.1.2.4 All prices must be valid for a period of three (3) years. Pricing escalations will apply on an annual basis from 01 July 2027 onwards. This agreement is subject to the annual appropriation of funds by the Hessequa Municipal Council. The Municipality shall have no liability for payments in respect of any financial year for which funds have not been allocated.
- 2.1.2.5 Bidders will be responsible for the delivery to and offloading of the prefabricated cold premix bags at the Municipal Workshops in Hessequa Municipal Area on weekdays between 08:00 and 16:00 (excluding public holidays). Bidders must supply and ensure their own manpower for the offloading of the prefabricated cold premix bags. Delivery can only be effected once an official order is issued to the service provider confirming the quantities, cost and delivery requirements.
- 2.1.2.6 Bidders must be situated within 150km from Riversdale, to ensure that the hot mix asphalt is still at the correct temperature when being applied.

2.1.3. Specifications:

- 2.1.3.1 The prefabricated cold premix shall contain coal shale and must be supplied premixed in a batch of minimum 400 x 30kg durable sealed plastic bags.
- 2.1.3.2 The grading of the mix must comply with the requirements of medium continuously graded asphalt according to the COTO Standard Specification.
- 2.1.3.3 Test results should be given in table 1 and the original lab results must be included as part of the returnable documents. Cold premix must be SANS approved.

Test Method	SABS Limits for	Results	
	Cold Premix		
Maximum Density (kg/m ³)	-		
Air Voids (%)	2 – 6		
Marshall Stability (KN)	7–15		
Marshall Flow (mm)	2 – 4		
Air Permeability x 10 ⁻⁸ (cm ²)	<1,0		
Stability/Flow (KN/mm)	2min		
Immersion Index	> 75%		
Grading	Sieve Size	%Passing	
		Envelop.	Actual
	4,75	100	
	2,36	90 - 100	
	1,18	65–95	
	0,6	42–72	
	0,3	23–48	
	0,15	10–27	
	0,075	4–12	

- 2.1.3.4 Test results of the **COLTO FINE** should be given in table 2 and the original lab results must be included as part of the returnable documents.

COLTO FINE			
DESIGN CRITERIA		SPEC	ACTUAL
Binder - Total Added	%		
Binder - Total Recovered	%		
Max. TRD (Rice)	kg/m ³		
BRD (Marshall)	kg/m ³		
Voids in Mix (Marshall)	%	4 - 6	
Stab. (Marshall)	kN	8 - 18	
Flow (Marshall)	mm	2 - 6	
Stab. / Flow Ratio		>2.5	
ITS	kN	>800	
Immersion index	%		
VMA	%	>14	
VFB	%	65 - 85	
Air Permeability @ 7% voids	cm ²		
Modified Lottman (TSR) @ 7% voids	%		
Filler Binder Ratio			
Absorp. (Binder)	%		

Film thickness	μm		
SIEVE ANALYSIS		Spec.	
% in Mix		Min - Max	Actual
Sieve Size (mm)	37.5		
	28.0	100	
	20.0	100	
	14.0	100	
	10.0	85-100	
	7.1		
	5.0	56-77	
	2.0	33-48	
	1.0	25-40	
	0.600	18-32	
	0.300	11-23	
	0.150	7-16	
	0.750	4-10	
BINDER PROPERTIES			
Type	50/70	Source	
Pen @ 25°C (0.1 mm)		Visc. @ 60°C (Pa.s)	
Soft. Pt (°C)		Visc. @ 135°C (Pa.s)	
RD		Hot Flow (mm)	
Temp. (Mix) (°C)		Temp. (Comp)	

2.1.3.5 Test results of the **MEDIUM WEARING COURSE** should be given in table 3 and the original lab results must be included as part of the returnable documents.

COLTO MEDIUM WEARING COURSE			
DESIGN CRITERIA		SPEC	ACTUAL
Binder - Total Added	%		
Binder - Total Recovered	%		
Max. TRD (Rice)	kg/m ³		
BRD (Marshall)	kg/m ³		
Voids in Mix (Marshall)	%	4 - 6	
Stab. (Marshall)	kN	8 - 18	
Flow (Marshall)	mm	2 - 6	
Stab. / Flow Ratio		>2.5	
ITS	kN	>1000	
Dynamic Creep Modulus	Mpa	>20	
VMA	%	>14	
VFB	%	65 - 75	
Air Permeability @ 7% voids	cm ²	< 1 X 10 ⁻⁸	
Modified Lottman (TSR) @ 7% voids	%	>0.7	
Filler Binder Ratio		1.0-1.5	
Absorp. (Binder)	%	<0.5	
Film thickness	µm	5.5 - 8.0	
SIEVE ANALYSIS		Spec.	
% in Mix		Min - Max	Actual
Sieve Size (mm)	37.5		
	28.0	100	
	20.0	100	
	14.0	100	
	10.0	85-100	
	7.1		
	5.0	56-77	
	2.0	33-48	
	1.0	25-40	
	0.600	18-32	
	0.300	11-23	
	0.150	7-16	
	0.750	4-10	
BINDER PROPERTIES			
Type	50/70	Source	
Pen @ 25°C		Visc. @ 60°C (Pa.s)	
Soft. Pt (°C)		Visc. @ 135°C (Pa.s)	
RD		Hot Flow (mm)	
Temp. (Mix) (°C)		Temp. (Comp)	

2.1.3.6 Test results of the **COLTO 20mm CONTINUOUSLY GRADED BITUMEN TREATEDBASE** should be given in table 4 and the original lab results must be included as part of the returnable documents.

COLTO MEDIUM WEARING COURSE			
DESIGN CRITERIA		SPEC	ACTUAL
Binder - Total Added	%		
Binder - Total Recovered	%		
Max. TRD (Rice)	kg/m ³		
BRD (Marshall)	kg/m ³		
Voids in Mix (Marshall)	%	4 - 6	
Stab. (Marshall)	kN	8 - 18	
Flow (Marshall)	mm	2 - 6	
Stab. / Flow Ratio		>2.5	
ITS	kN	>1000	
Dynamic Creep Modulus	Mpa	>20	
VMA	%	>14	
VFB	%	65 - 75	
Air Permeability @ 7% voids	cm ²		
Modified Lottman (TSR) @ 7% voids	%		
Filler Binder Ratio			
Absorp. (Binder)	%		
Film thickness	µm		
SIEVE ANALYSIS		Spec.	
% in Mix		Min - Max	Actual
Sieve Size (mm)	37.5	100	
	28.0	100	
	20.0	87-96	
	14.0	73-85	
	10.0	64-79	
	7.1		
	5.0	43-61	
	2.0	28-44	
	1.0	20-35	
	0.600	15-30	
	0.300	11-24	
	0.150	8-19	
	0.075	5-12	
BINDER PROPERTIES			
Type	50/70	Source	
Pen @ 25°C		Visc. @ 60°C (Pa.s)	
Soft. Pt (°C)		Visc. @ 135°C (Pa.s)	
RD		Hot Flow (mm)	
Temp. (Mix) (°C)		Temp. (Comp)	

Failure to adhere to the beforementioned may result in your tender being declared non-responsive.

DECLARATION,

Initials of Service Provider's Authority:

I, THE UNDERSIGNED (NAME)
CERTIFY THAT THE INFORMATION FURNISHED ABOVE IS CORRECT. I ACCEPT THAT THE MUNICIPALITY MAY
ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

AUTHORISED SIGNATURE:

NAME:

CAPACITY: DATE: