ERRATUM

DEPARTMENT/ INSITUTION	BID NUMBER & PROJECT DESCRIPTION	CONTACT PERSON
	BID NUMBER & FROJECT DESCRIPTION	
DEPT OF TRANSPORT		
DEPARTMENT/	SCMU10-21/22-0030;	SCM SPECIFIC ENQUIRIES
INSITUTION	UPGRADING OF THE ROAD, DR08303, DR08329, DR08308 AND DR08309 FROM R61 AT ST	SCM SPECIFIC ENQUIRIES
	BARNABAS HOSPITAL TO HLULEKA NATURE RESERVE PHASES 2 (32km)	Mr. Naikasha
		Mr. Nqikashe Cell no: 067 419 8001
	This "Notice to Tenderers / Addendum" is an addition to the Tender Documents listed in the List of Contract Documents. Any tender submitted will be deemed to be in accordance with those Documents amended in	Email address:
	accordance with the following instructions:	Philasande.Nqikashe@ectr
		ansport.gov.za
	AD1-1 COVER PAGE	
	Replace "12 November 2021" with "22 November 2021".	
	AD1-2 PART T1.1: TENDER NOTICE AND INVITATION TO TENDER	
	A. <u>TENDER INVITATION</u>	
	In the second last paragraph replace "Friday 12 November 2021" with "Monday 22 November 2021"	
	E. <u>TENDER SUBMISSIONS:</u>	
	In the first paragraph replace "Friday 12 November 2021" with "Monday 22 November 2021"	
	AD1-3 PART T2.2: RETURNABLE SCHEDULES	
	SBD1: INVITATION TO BID AND TERMS AND CONDITIONS FOR BIDDING	
	Replace the closing date "12/11/2021" with "22/11/2021"	
	AD1-4 PART C2.2: PRICING SCHEDULE	
	SCHEDULE A: ROADWORKS	
	SECTION 1200 GENERAL REQUIREMENTS AND PROVISIONS	

Page C2.7 An	nend the rate and amo	unt of item B12.09 (a) fr	om "2,500,000" to "3,000	,000".				
Page C2.7 Amend the quantity of item B12.09 (b) from "2,500,000" to "3,000,000".								
SECTION 150	о ассоммое	DATION OF TRAFFIC						
Page C2.15 A	mend the quantity of it	em B15.03 (a) from "13,	,000" to "15,000".					
Page C2.15 A	mend the quantity of it	em B15.03 (h) (ii) from "	'1,600" to "20,000".					
SECTION 330	0 MASS EART	HWORKS						
Page C2.30 A	mend the quantity of it	em 33.01 (b) (iii) from "8	3,000" to "37,500".					
Page C2.30 A	mend the quantity of it	em 33.01 (e) from "8,50	0" to "110,000".					
Page C2.30 A	mend the quantity of it	em B33.04 (a) (i) from "ź	27,700" to "110,000".					
Page C2.32 A	mend the quantity of it	em 33/B16.02 from "1,0	00,000" to "1,500,000".					
SECTION 340	0 PAVEMENT	LAYERS OF GRAVEL	MATERIAL					
Page C2.33 A	mend the quantity of it	em 34/B16.02 from "410),000" to "600,000".					
SECTION 360	0 CRUSHED-S	STONE BASE						
Page C2.36 A	dd the following new it	em:						
Item	Description		Unit	Quantity				
"36/35.02	Chemical stabilizing a	agent:						
	(a) Cement							
	(i) CEM II 32.5 N		t	75"				
Page C2.36 A	mend the quantity of ite	em 36/35.02 (c) from "15	50" to "75".					

-	3 Delete item B46.01 (a) (i)			
Page C2.38	Amend the quantity of item B46.01 (a) (ii) from "150,000" to "	30,000".		
Page C2.38	B Add the following new item:			
Item	Description	Unit	Quantity	
"B46.01	Bituminous single seal with 20mm aggregate and two slurries (Cape Seal) (excluding 2nd application of binder)			
	 (a) Single 20mm seal (minimum aggregate ALD 12mm) with two slurries (total 15 kg/m2 spread by hand) with a tack coat of: 			
	(iii) Homogenous hot applied polymer modified binder (Binder Class S-E1)	m²	270,000"	
Page C2.38	Amend the quantity of item B46.03 (e) from "200,000" to "40,	000".		
Page C2.38	Amend the quantity of item B46.03 (m) from "195,600" to "2,0	000".		
Page C2.38	Add the following new item:			
Item	Description	Unit	Quantity	
"B46.03	Bituminous binder variations:			
	(n) Homogenous hot applied polymer modified binder (Binder Class S-E1)	litre	120,000"	
SCHEDULE	F: SMME SUB CONTRACTOR EMPLOYMENT			
SECTION F	1000 SMME SUB CONTRACTOR EMPLOYMENT			

Pa	age C2.58	3 Amend the quantity of item F10.06 from "R 800,000.00" to "R 8,000,000.00".	
AD	D1-5 PAR	T C3: SCOPE OF WORKS	
SE	ECTION B	3300: MASS EARTHWORKS	
В3	3307 FILL	s	
(c))	Constructing a pioneer layer	
Ad	dd the follo	owing new paragraph after the first paragraph:	
dej	pth of 800	oad is in cut, all unsuitable material shall, in accordance with clause B3302(b), be cut to spoil to a Omm below the final road level (FRL) or to a depth as determined by the Engineer. The unsuitable Ill be replaced with a suitable fill material (gravel or rock) as directed by the Engineer.	
		f gravel fill material is ordered it shall be placed in layers not exceeding 200mm in thickness and er the relevant fill payment items.	
En pay	ngineer, a syment ite	rock is ordered, the layer thickness shall not exceed either 350mm or 375mm, as ordered by the nd the layer shall be classified as a pioneer layer and paid for under the relevant pioneer layer ms. The maximum size of rock used in the layer shall be 300mm. The surface of the layer of rock ded with finer material so that the following selected layer can be placed and compacted."	
SE	ECTION B	4300: SEALS: MATERIALS AND GENERAL REQUIREMENTS	
B4	4302	MATERIALS	
a)		Bituminous binders	
(v))	Homogeneous hot applied polymer modified binders	
Re	eplace the	entire sub-sub-clause with the following:	
"(1	1)	Base bitumen	
the		tumen or blends thereof, shall comply with the requirements of SANS 4001-BT1:2016. In addition, I composition of the bitumen shall be such as to permit blending with the proposed polymer to form duct.	
(2))	Polymer	

	nd percentage of polymer to be blende e, in the relevant pay item in the Prici	ntractor					
(3)	Polymer modified blend						
The polyme	r modified bitumen shall be blended a						
The polyme of table B43	r modified bitumen to be used on this 002/7.	rements					
is commend	for the day's production shall be tested ed with. No claim for delays due to th ometer shall be used to monitor the v	nis requirer	ment shall be cons	sidered. As a	control, a ha		
(4)	Cutting back of binder in a dedicated	l plant					
Cutting bac	k of binder in a dedicated plant						
hazards ass requirement The percent	back of bitumen shall be done with M sociated with the field production of n ts of SANS 4001 – BT2. tage of cut back using MC30, for this	nedium cu contract, s	ring cutback bitum shall be 4.5% during	nen. MC30 s	shall comply	with the	
	of 9% during the coldest periods in the ble 4302/7 with the following table B4		of winter.				
	TABLE B4302/7 PROPERTIES SEALING APPLICATIONS (SUI			FIED BING	DERS FOR	а нот	
	Property	Unit	Test Method		lass	_	
	Before ageing			S-E1	S-E2	_	
	Softening Point ⁴	°C	MB-17	50–70	60-80 ¹	-	
	Elastic recovery @ 15°C	%	MB-4	>50	>60	-	
	Dynamic Viscosity @ 165°C	Pa.s	MB-18	<u>≤</u> 0.55	<u>≤</u> 0.60	-	
	Storage Stability @ 180°C ²	°C	MB-6	<u>≤</u> 5	≤ 5		
	Flash Point	°C	ASTM D92	<u>≥</u> 230	<u>≥</u> 230	4	
	After ageing (RTFOT)						
1	Mass change ³	%	MB-3	<u>≤</u> 1.0	<u>≤</u> 1.0		

						1	
	Elastic recovery @15 °C	%	MB-4	>50	>60		
	¹ The softening point values obtained for						
	reheating. Road surfaces could bec adhesion properties.	ant poor					
	 ² Certain base bitumens, when used in 	regation					
	of the modified binder. The Storage						
	compatibility of the base bitumen and	not met,					
	proposals of site agitation procedures						
	for consideration. In all cases whene						
	bitumen has changed, the test shall measures to prevent segregation	be repeated	a to ensure compli	ance or to u	elennine line i	need ior	
	³ Mass loss gives an indication of the pl	resence of vo	platiles in the binder.				
	⁴ The prescribed test method is based	on not using	g stirrers although it	has been re	ported that th	e use of	
	stirrers has shown no difference in tes	st results. Fo	r refereeing purpose	es no stirrers	should be use	ed.	
Add the fu	ollowing sub-clauses:						
	showing bub blaubee.						
"f)	Testing of polymer modified bitume	en/emulsio	n				
	hall be in accordance with the method		d in "Technical G	uideline: T	he use of N	lodified	
Bituminou	is Binder in Road Construction (TG 1-20	19)".					
		L . II . I	the second second second				
During sp	praying of each batch, the contractor s	shall draw (off at least three	test samp	es of the m		
	mulsion product and submit them to the his tests results to the Engineer for corre						
	terms of acceptance or rejection of the p		USES, failing which				
binding in							
B4304	GENERAL LIMITATIONS AND REQU	JIREMENT	S				
a)	Weather limitations						
Delete thi	s sub-clause and replace with the follow	ing:					
"No bitur	inous work shall be done during foggy	or rainy w	oothor Whon a a	old wind in	blowing the	bolow	
	irres shall be increased by 3°C to 6°C as				blowing, the	, DEIOM	
temperati		unected by	the engineer.				
When stre	ong winds are blowing which are likely to	o interfere w	vith the proper exe	ecution of th	ne work, no s	sealing,	
	spraying of binder, shall be done.				- , ,	3 ,	
	r the temperature of the road surface fall						
or in the	aninian of the angineer will probably fall	holow the	no avvino al to popo a rot				
	opinion of the engineer, will probably fall	below the	required temperat	ure before :	spraying the	binder,	
	shall be sprayed.	below the	required temperat	ure before s	spraying the	binder,	

	nimum road-surface rising temperatures at which the spraying of the different types and grades of binder done are -	
(i)	Conventional binders	
(1)	Bitumens	
70/100	penetration-grade25°C	
MC-300	00 cut-back bitumen10°C	
(2)	Bitumen emulsions	
Bitume	n emulsion10°C	
(ii)	Homogeneous hot-applied modified binders (summer grade)	
(iii)	Homogeneous hot-applied modified binders (winter grade)	
	ut back with 4,5% MC3023°C ut back with 9,0% MC3021°C	
(iv)	Slurry	
or less	ntional slurry shall not be applied at an air temperature of less than 7°C when temperatures are rising, than 13°C when temperatures are dropping. Rapid setting slurry shall be sufficiently versatile to be laid emperatures of 4°C to 40°C, as well as capable of being laid under damp conditions.	
	hot weather slurry operations shall be suspended when aggregate is being displaced by the spreader squeegees.	
require	the breaking process accelerates to such an extent that it renders the product unworkable to attain the d result, for instance when the surface temperature is in excess of 60°C, or as otherwise prescribed by gineer, no sealing shall be done."	

Homogeneous hot-applied binders (summer grade)

In the second paragraph, replace table 4305/3 with "table B4305/3":

TABLE B4305/3: TEMPERATURE/TIME LIMITS FOR HOT POLYN MODIFIED BINDERS Short Term Short Term Spraying/Asphalt Handling/ Storage1 Spraying/Asphalt Transportation Storage1 Mixing/Application									
Binder Class	Max temp (ºC)	Max holding time (hrs)	Max temp (ºC)	Max holding time ² (hrs)	Max temp (ºC)	Min temp (ºC)	Max holding time (hrs)		
S-E1 (SBR)	180	24	150	240	210	175	8		
S-E1 (SBS)	180	24	150	240	185	175	12		
S-E2	180	24	150	240	185	175	12		

"TABLE BARDERATIRE/TIME LIMITS FOR HOT POLYMER

When storing product for 48 – 240 hours it is recommended that the tank has agitation circulation. 2 If the recommended maximum holding time has been exceeded the binder should be resampled and tested to ensure compliance with the specification"

Homogeneous hot-applied modified binders (winter grade)

Add the following:

f)

"When S-E1 is cut back with MC30, the supplier shall provide temperature-viscosity relationships for the different percentages of MC30 addition and recommendations regarding spray temperatures."

SECTION 4600: BITUMINOUS SINGLE SEAL WITH SLURRY (CAPE SEAL)

B4601 SCOPE

...

Add the following subclause to this clause:

"No emulsion to be used on grades steeper than 8%. All sections steeper than 8% to be surfaced with hot applied modified binder."

B4602 GRADES OF BINDER TO BE USED

Nominal rates application

(e)

	Nominal size of aggregate (mm)	Unmodified bitumen and all emulsions (Net cold bitumen ℓ/m^2)	Homogenous hot applied modified bitumen at spray temperature (ℓ/m^2)	Aggregate (m²/m³)	
	20 mm	1,35 ℓ /m²	1,7 ℓ/m²	85	n
(a) Tao	k coat				
(iii) Hor					
Delete "(1) latex					
B4603 CONST					
Amend Table 46					