

١- قائمة السلع وجدول التسليم
 القائمة المرفقة ١٤/ب/م/س ج ٢٠١٩/٥ تجيز طابوق واطق الالومينا لعامل معاونة السمكت الجنوبية

فترة التجهيز بالأيام	الوحدة	الوزن	العدد	رمز الطابوق	وصف السلع	رقم الفقرة
فترة التجهيز التفريغ من مقدم العطاء	الوحدة التفريغ للتسليم					
		طن	٨٨٤٠٠	٦١٦٠٠	622 322 Kufa Cement Plant: Kiln dia. 5.25 m with running length 1٧. m.	2
		طن	١٠٢٨	١٠٢٨	المجموع	
a- Chemical composition						
					Al ₂ O ₃	40 - 45 %
					Fe ₂ O ₃	1.5 %
					SiO ₂	54 %
b- Physical Specifications						
					Bulk Density	2.2 ± 0.1 g/cm ³
					Apparent Porosity	17 Volume%
					Cold Crushing Strength	≥ 50 N/mm ²
					Thermal Expansion (1000°C)	0.6-0.7 %
					Thermal shock resistance Water	≥ 20 cycle
					Refractoriness under load	1300 - 1350 °C
					Thermal Conductivity ± 0.1	1.2 W/mK _e
						1.3 W/mK _e
						1.4 W/mK _e
					المشأ: دول اوربا الغربية او افريقيا	

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1-list of goods and delivery schedule

Tender No 14/ /SOC /2019 Supplying Low Alumina refractory bricks

Item No.	Goods Description	Bricks code		picce.	Quantity	Unit	Supplying Period (in days)	
		322	622				21600	88400
2	Kufa Cement Plant: Kiln dia. 5.25 m with running length 130 m.				1038	Ton		
	Total weight				1038	Ton		
<u>a- Chemical composition</u>								
	Al ₂ O ₃			40 - 45	%			
	Fe ₂ O ₃			1.5	%			
	SiO ₂			54	%			
<u>b- Physical Specifications</u>								
	Bulk Density			2.2 ± 0.1	g/cm ³			
	Apparent Porosity			17	% Volume			
	Cold Crushing Strength			≥ 50	mm/N			
	Thermal Expansion (1000°C)			0.6-0.7	%			
	Thermal shock resistance Water			≥ 20	cycle			
	Refractoriness under load t 0.5			1300 - 1350	°C			
	Thermal Conductivity ± 0.1 at 500°C			1.2	W/mK ²			
				1.3	W/mK ²			
				1.4	W/mK ²			
Origin : Western origin companies or from their branches in Asia or africa								

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The Technical Specification And Concerning Services For Tender No. 14/ /SOC /2019 Supplying Low Alumina refractory bricks

IT N O	SPECIFICATION	QTY
	a- Chemical composition	
	Al ₂ O ₃	40 - 45 %
	SiO ₂	54 %
	Fe ₂ O ₃	1.5 %
	b- Physical Specifications	
	Bulk Density	2.2 ± 0.1 g/cm ³
	Apparent Porosity	17 % Volume
	Cold Crushing Strength	≥ 50 N/mm ²
	Spalling Resistance 950 °C/air	≥ 20 cycle
	Refractoriness under load ta	1300 - 1350 C°
	Thermal Expansion at 1000 C°	0.6 - 0.7 % lin
	Thermal Conductivity ± 0.1 at 500 C°	1.2 W/mK ^o
	at 750 C°	1.3 W/mK ^o
	at 1000°C	1.4 W/mK ^o
	Origin : Western origin companies or from their branches in Asia or africa	
	Packaging according to international standard specifications.	
	Provide us with (chemical and physical properties As Mentioned Above) details testes certification from SGS .	
	The Offer should include <u>Key Bricks</u> with suitable mortar in addition to above quantities of bricks.	
	Note : Total weight is subject to increase or decrease within the limits allowed for the bulk density required.	

1.3A
Ton

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 محمد
 عيسى
 العيسى

4- Test And Engineering Inspection

The Following Tests And Engineering Inspection will be executed (the schedule of tests and engineering inspections)

Line	Item	No
	The required inspection for the goods materials are as follows	
	List of inspections and Tests	
	<u>a- Chemical composition</u>	
	Al2O3	40 - 45 %
	SiO2	54 %
	Fe2O3	1.5 %
	<u>b- Physical Specifications</u>	
	Bulk Density	2.2 ± 0.1 g/cm ³
	Apparent Porosity	17 % Volume
	Cold Crushing Strength	≥ 50 N/mm ²
	Spalling Resistance 950 °C/air	≥ 20 cycle
	Refractoriness under load	ta
	Thermal Expansion at 1000 C	0.6 - 0.7 % lin
	Thermal Conductivity ± 0.1	at 500 C
	at 750 C	1.3 W/mK ^o
	at 1000°C	1.4 W/mK ^o

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 15/11/2011