PETROCHEMICAL RESEARCH
AND TECHNOLOGY CO.

PROJECT:

MTP CATALYST FOR PVM TECHNOLOGY

CATALYST CODE: ZEOTECH-RT/ T. HAS 200 & S. HAS 200

PROJECT NO.:

0870349904

BEAD MILL PACKAGE B-11 PROCESS DATASHEET

PREPARED:		CHECKED:	APPROVED:	DATE:	REV.:	
	S.RAJABI	S.ARABAHMADI	F.YARIPOUR	1400.01.22	0	

OWNER:

PETROCHEMICAL RESEARCH

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	PETROCHEMICAL RESEARCH AND TECHNOLOGY CO.	CATALYST CODE: ZEOTE	,							
Des	ignation:	SEED BEAD MILL	Item No.:	B-11 No. Re	q.: 1 Pa	age:	2/3			
		PR	OCESS DATA							
	Quantity operat./stand-by		1/0							
	Belonging to Equipment		Bead Mill							
	Location		Indoor							
_	Process fluid		Slurry							
	Physical condition Grinding volume	0.23	Solid/Liquid 0.23 m ³							
_	Grinding time		1							
_	Grinding time Grinding media:									
9	H2O	68.4	wt%							
10	SiO2		11.4	wt%						
11			17.9	wt%						
12	NaOH		2.3	wt%						
13	Solids content	10 – 15	%							
14	Health / Fire hazard		3/0							
15	Explosion proof		NO							
_	Operating temperature		amb.	°C						
_	Operating pressure		atm.	barg						
_	Design temperature		60	°C						
_	Design pressure		2	barg						
_	Density		1080	kg/m ³						
	Viscosity		9 – 10 9 – 11	сР						
_	pH-Value Feed size		>5	um						
_	Finish size		<1	μm μm						
25	1111311 3126		\1	μιιι						
		TEC	HNICAL DATA							
26	Grinding System:									
27	Grinding chamber:									
28	Grinding chamber volume						m ³			
29	Inner chamber mate			Silicon carbide						
30	Outer chamber mat		SS 304							
31	5			By vendor						
32	Grinding chamber w		By vendor barg							
33				Easy maintenance						
35										
36 37	Rotor structure		Pin type							
38	Main motor speed		By vendor rpm							
38				By vendor m/s By vendor and corrosion resistance						
	9 Main shaft material B 4 Sealing System:			by veridor and corrosion resistance						
40	Mechanical sealing:									
41	Mechanical sealing	type	Double							
42	<i>5</i> 7.			By vendor and high wear resistance						
43				SS 304						
44				Corrosion resistance						
45	· ·			Water or solvent which could compatible with the material						
46				Recycled cooling						
47				Monitor via level gauge						
48				By vendor barg						
49										
50										
51										
PRI	PARED:	CHECKED:	APPROVED:		DATE:		REV.:			
	S.RAJABI	S.ARABAHMADI	F.YAR	IPOUR	1400.	01.22	0			

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Designation: **SEED BEAD MILL** Item No.: B-11 No. Req.: 1 Page: 3/3 **TECHNICAL DATA** Sealing System: (continued) Pressure balancing tank: 3 Thickness By vendor $\mathsf{m}\mathsf{m}$ 4 Material SS 304 5 With pressure gauge, liquid level sight glass, **Equipment consists** 6 safety valve etc 7 Material transportation system: 8 **Material feeding:** 9 Pump type By vendor 10 Air pressure supply for pump By vendor barg 11 Pipe material Corrosion resistance 12 Discharge separator: Static discharging Centrifugal filter screen 14 Screen gap mm By Vendor Separate material 15 By Vendor 16 Cooling system: 17 Cooling mode: 18 1) Outer chamber cooling water circulate route 19 2) End cap Perfect temperature control 20 3) Mechanical sealing 4) Bearing seat cooling Water supply: Cooling water 27 - 37 °C. 24 m³/h Water flow By vendor 25 Water pressure By vendor barg 26 Air supply system: 27 Compressed air: 28 Air supply pressure By vendor barg 29 Air source handling 30 Air flow I/min By vendor 31 **Electrical and Control system:** 32 **Driving motors:** Motor By vendor kW 34 Motor brand By vendor 35 Motor voltage By vendor ٧ 36 Motor starting mode Soft Start 37 **Electrical control:** 38 Buttons (air pump start, air pump stop, speed adjusting System control* 39 with VFD, mill start, mill stop, E-stop, indicating light etc) 40 Pre-setted value, with electric contacting pressure meter Grinding pressure control 41 Grinding temperature control Pre-setted value, with electric contacting pressuremeter 42 43 * Possibility to connect to DCS control system 44 45 46 47 48 52 PREPARED: CHECKED: APPROVED: DATE: REV.:

F.YARIPOUR

1400.01.22

پیوست دیتاشیت مناقصه دو مرحلهای (خرید دستگاه Slurry Bead Mill)



ساير الزامات

- ۱- نوع روتور استراکچر باید توانایی تولید دوغاب با اندازه ذرات ذکر شده در دیتا شیت را داشته باشد.
- ۲- جنس گریندینگ چمبر باید در مقابل خوردگی pH و سیلیس مقاوم بوده و از جنس سرامیک زیر کونیا
 باشد.
- ۳- سیستم خنککاری چمبر دستگاه به گونهای طراحی شده باشد که دمای دوغاب را کنترل کرده و از وارد کردن آسیب به دستگاه جلوگیری کند.
- ۴- نوع و جنس مکانیکال سیلینگ و سیستم خنک کاری آن به گونهای باشد که طول عمر حداقل دو سال ۱٫ داشته باشد.
- △ جنس روتور و بیدها باید از سرامیک زیرکونیا باشد تا در مقابل خوردگی مقاوم باشد و فرایند CIP
 روی آنها انجام شده باشد.