

Vendor's Name: BORSIG GmbH
W.O.-No.: 160794
Purchaser's Name : Kavian Petrochemical Company
Plant Location : KPC Assaluyeh
Project Name : Kavian Olefin Plant
P.O. NO. : K-100
Equipment Name : Primary / Tertiary / Secondary TLE & SD
DOCUMENT TITLE : Spare Part List for Erection, Commissioning and Start Up
Vendor's Doc. No: 12351-15077-5744

Total pages: 5



REV. NO. / Date	DESCRIPTION	APPROVED BY	PREP'D BY
00 / 03.11.2008	For Information	Proske	Proske

VENDOR NAME:

BORSIG
 PROCESS HEAT EXCHANGER

SPARE PARTS for erection , commisioning and start up
for 18 Steam Drums 30 D 1101 thru 30 D 1109 , 30 D 2101 thru 30 D 2109

supplier BORSIG Process Heat Exchanger GmbH	client main order no K 100	dated 28.10.08
main purchase order 160794.07	drwg. no. 12351-15071-0	revision

item	description	material	nbr of pieces		recommanded nbr of spare parts	nbr of spares to be inquired	EURO unit price	EURO total Price	delivery time weeks	
			per equipt	total						
1	2	3	4	5	6	7	8	9	10	
1	manhole gasket part 203	1Cr-1/2Mo/ Graphit	1	18	36				10	
2	manhole bolt , nut , washer part 207,208,209	SA193 B16 SA194Gr.A St	2	36	4				10	
3	RTJ- Gasket 2" 1500lbs part 42	soft iron	1	18	36				15	
4	bolt 7/8" 9UNC x 145 part 43	SA 193 B16	8	144	15				10	
5	nut 7/8" 9UNC part 44	Sa 194 Gr. 4	16	288	30				10	
remarks							total amount			

SPARE PARTS for erection , commisioning and start up
for 18 Secondary TLE `s 30 E 1111 thru 30 E 1119 , 30 E 2111 thru 30 E 2119

supplier BORSIG Process Heat Exchanger GmbH		client main order no K 100				dated 28.10.08				
main purchase order 160794.26		drwg. no. 12351-15064-0				revision				
item	description	material	nbr of pieces		recommanded nbr of spare parts	nbr of spares to be inquired	EURO unit price	EURO total Price	delivery time weeks	
			per equipt	total						
1	2	3	4	5	6	7	8	9	10	
1	grooved gasket dia. 1574/1546x4 part 33	1Cr-1/2Mo/ Graphit	1	18	36				10	
2	grooved gasket dia. 1567/1543x4 part 39	1Cr-1/2Mo/ Graphit	1	18	36				10	
3	RTJ gasket 2" 1500 lbs part 49	soft iron	1	18	36				15	
4	insulating rope part 59 in meter	earthy based Alk. Silc. Fibr.	4,5	81	150				10	
5	bolt 1" 8UNC x 285 part 31	SA193 B16	72	1296	130				10	
6	nut 1" 8UNC part 32	SA 194 Gr.4	144	2592	260				10	
7	bolt 3/4" 10UNC x 180	SA193 B16	44	792	80				10	
8	nut 3/4" 10UNC part 38	SA 194 Gr.4	88	1584	160				10	
9	bolt 7/8" 9UNC x 145 part 13	SA193 B16	8	144	15				10	
10	nut 7/8" 9UNC part 14	SA 194 Gr.4	16	288	30				10	
11	bolt 3/4" 10UNC x 130 part 116	SA193 B16	20	360	4				10	
12	nut 3/4" 10UNC part 117	SA 194 Gr.4	40	720	8				10	
13	bolt 3/4" 10UNC x 125 part 110	SA193 B16	12	216	3				10	
14	nut 3/4" 10UNC part 111	SA 194 Gr.4	24	432	6				10	
15	grooved gasket dia. 571/547 x 4 part 118	1Cr-1/2Mo/ Graphit	1	18	36				10	
16	grooved gasket 6" 300 lbs part 112	1Cr-1/2Mo/ Graphit	12	216	432				10	
remarks			total amount							

SPARE PARTS for erection , commisioning and start up
for 54 Primary TLE `s 30 E 1101 A-C thru 30 E 1109 A-C , 30 E 2101 A-C thru 30 E 2109 A-C

supplier BORSIG Process Heat Exchanger GmbH		client main order no K 100				dated 28.10.08			
main purchase order 160794.23		drwg. no. 12351-15055-0				revision			
item	description	material	nbr of pieces		recommanded nbr of spare parts	nbr of spares to be inquired	EURO unit price	EURO total Price	delivery time weeks
			per equipt	total					
1	2	3	4	5	6	7	8	9	10
1	gasket part 123	Grd.321/ MICA Layer	1	54	108				10
2	gasket part 139	Grd.321/ MICA Layer	8	432	864				10
3	bolt part 121	SA193 B16	24	1296	130				10
4	nut part 122	SA 194 Gr.4	48	2592	260				10
5	bolt part 137	SA193 B16	64	3456	346				10
6	nut part 138	SA 194 Gr.4	128	6912	692				10
remarks			total amount						

