### Selected References

### **Biturox® Bitumen Processing Units**





### Pörner Ingenieurgesellschaft mbH

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### **Selected References**

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	The state of the s		End
Services and supplies by Pörner		Project / Scope	
	India	2015	2017
	500.000 TPA	Brown field	
	VG 10/30/40	EPCM	
	Azerbaijan	2015	2017
	400.000 TPA	Brown field	
	Pen/Pen 40/60	EPCM	
	Saudi Arabia	2014	2017
License, basic engineering, pilot tests, procurement and	3.200 TPD	Brown field	
uipment, start-up assistance,	A-970, Road grade	EPCM	
	Oman	2014	2016
License, basic engineering, pilot tests, procurement and supply of proprietary equipment, start-up assistance, training	2 x 516 TPD RG: PEN 60-70	Brown field	
		EPCM	
	Iraq	2013	2017
	2 x 250.000TPA	Green field	
	- коаа Grade 40/50, 60/70	EPCM	
9	quipment, start-up assistance, training ering, detailed engineering, ly of process unit, site supervision, start	ering, pilot tests, procurement and 2 x 516 TPD quipment, start-up assistance, training RG: PEN 60-70  Iraq  ering, detailed engineering, 2 x 250.000TPA ally of process unit, site supervision, start- Road Grade 40/50, 60/70	ering, pilot tests, procurement and quipment, start-up assistance, training PEPCM    Iraq   2013     Iraq   2013     Iraq   2013     Iraq   2014     Iraq   2015     Iraq   2016     Iraq   2017     Iraq   2018     Iraq   20

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Client	Place	Country	Start	End	
Project description	Services and supplies by Pörner	Remark	Project / Scope		
IOCL Indian Oil	Barauni	India	2012	2013	
Biturox® Barauni					
Installation of a new Biturox® bitumen processing plant for	License, basic engineering, detailed engineering,	450 TPD	Brown field		
production of special road grade bitumen	1 117 7 1 1	VG 10, VG 20, VG 30, VG 40 Road grade	EPCM		
OJSC Novoshahtinskij Zavod Nefteproduktov	Novoshakhtinsk	Russia	2011	2014	
Biturox® Rostov					
Installation of a grass root Biturox® bitumen plant	License, basic engineering, detailed engineering,	2 x 330.000TPA;	Green field		
including storage tanks as well as truck and rail loading stations		2.200 TPD - BND 60/90, BND 40/60; BND 90/130, Road Grade	EPCM		
SCOP State Company for Oil Projects	Nassiriya	Iraq	2011	2012	
Biturox® Nassiriya					
Installation of a grassroot refinery, including a Biturox®	License, basic engineering, procurement and supply of	330.000TPA	Green field		
bitumen plant with off gas treatment & heat recovery	proprietary equipment, site supervision, start-up assistance	Road Grade 40/50, 60/70, 80/90; Industrial Grade 20/30	EPCM		
SRC South Refineries Company	Maissan	Iraq	2011	2012	
Biturox® Maissan					
Installation of a new Biturox® bitumen processing plant for production of road and industrial grade bitumen	License, basic engineering, start-up assistance, documentation	153.000TPA 220 TPD - Pen 40-50, Pen 60-70,	Green Field		
	accumentation	Pen 80-100, Road Grade - 245 TPD, SP/Pen 115/10, SP/Pen 105/20	ECM		
NRC North Refineries Company	Kirkuk	Iraq	2010	2012	
Biturox® Kirkuk					
Installation of a Biturox® bitumen plant with off gas	License, basic engineering, site supervision, commissioning	153.000TPA	Green field		
treatment & heat recovery; product storage and truck loading area within a new grassroot refinery	support and documentation	220 TPD - Pen 40-50, Pen 60-70, Pen 80-100, Road Grade - 245 TPD, SP/Pen 115/10, SP/Pen 105/20	ECM		



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Client	Place	Country	Start	End
Project description	Services and supplies by Pörner	Remark	Project / Scope	
ESSAR OIL Ltd	Gujarat	India	2010	2011
Biturox® ESSAR				
Installation of a Biturox® bitumen oxidation plant for production of industrial and road grade bitumen	License, basic engineering	72.000 TPA	Brown field	
production of industrial and road grade bitumen			Е	
State Company for Oil Projects (SCOP)	Karbala	Iraq	2009	2017
Biturox® Kerbala				
Installation of a Biturox® Bitumen plant within a grass-root refinery; site constructions to be expected in 2014	License, basic engineering, start-up assistance,	72.000 TPA 200 TPD; Road Grade 30/40, 60/70,	Green Field	
refinery; site constructions to be expected in 2014		200 TPD; Road Grade 30/40, 60/70, 80/100	ECM	
CEPSA Companía Espanola de Petróleos	La Rabida	Spain	2009	2011
Biturox® CEPSA				
Installation of a Biturox® bitumen processing plant for	License, basic and detailed engineering, procurement and	390.000 TPA	Brown field	
production of special road grade bitumen	supply process equipment, commissioning, start-up assistance and documentation	1.150 TPD; Road Grade 50/70, 70/100, 30/45	EP	
SAMIR Oil Refinery	Mohammedia	Morocco	2009	2011
Biturox® SAMIR				
Turn-key installation of a Biturox® bitumen oxidation plant including storage tanks and HGV filling station	Turn-key: license, financial support, project management, basic and detail engineering, purchase and supply of process unit, construction, site supervision, commissioning and documentation	290.000 TPA Road Grade 40/50, 60/70, 80/100; Industrial Grade 90/25	Brown field	
			EPC	
Pak-Arab Refinery Ltd (PARCO)	Qasba Gujrat	Pakistan	2008	2012
Biturox® PARCO				
Installation of a Biturox® bitumen oxidation plant for production of industrial and road grade bitumen	License, basic engineering, detailed engineering,	180.000 TPA	Brown field	
	procurement and supply of proprietary equipment, site	Pen 80-100, Pen 60-70, Pen 30-40, Pen 10-20, Road Grade	ECM	

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Project description	Services and supplies by Pörner	Remark	Project / Scope	
Qatar Petroleum	Al Shaheen Refinery	Qatar	2008	2008
Biturox® Qatar				
Installation of a bitumen oxidation plant according to the Biturox® technology	License, basic engineering	100.000 TPA	Brown field	
<b>U</b> ,			E	
Jey Oil	Isfahan	Iran	2007	2008
Biturox® Jey Oil				
Revamp of the incinerator section of an existing Biturox® plant	License, basic engineering, detail engineering, purchase and supply of key equipment, commissioning and start-up	Revamp	Modernisation	
			EPCM	
Soroush Oil Refinery	Qeshm	Iran	2007	2007
Biturox® Meerat				
Basic engineering for a vacuum distillation plant / athmospheric distillation based on Biturox-® plus	License. basic engineering including process, machinery/apparatus, piping layout, electric-instrumentation-	300 TPD	Modernisation	
technology inclusive process simulation and equipment specifications	automation and civil engineering		Е	
Bharat Petroleum Kochi Refinery	Cochin	India	2006	2007
Biturox® Kochi				
Installation of a new bitumen plant incl. off gas treatment	License, basic engineering, supply of key equipment and off gas treatment system, site supervision, commissioning, training and documentation	1.135 TPD VG 10, VG20, VG30, VG 40, Road Grade	Brown field	
according to the Biturox® technology			EPCM	
Indian Oil Corporation Ltd., Mathura Refinery	Mathura	India	2006	2007
Biturox® Mathura				
Revamp of an existing bitumen plant on basis of the	License, basic engineering, detailed engineering, supply of	2.250 TPD	Brown field	
Biturox® process for production of special road grade bitumen	key equipment, site supervision, start-up, training and documentation	700.000 TPA S35, S65, S90 Road Grade	EPCM	



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Project description	Services and supplies by Pörner	Remark	Project / Scope	
JSC "TAIF-NK"	Nizhnekamsk	Russia	2005	2007
Biturox® Nizhnekamsk				
Installation of a Biturox® plant	Feasibility study, license, basic engineering for the process	2 x 720 TPD	Brown Field	
	unit, detailed engineering, procurement and supply of the process unit, site supervision, start-up assistance and documentation	R+B: 44-48 °C, PEN 60-70, Road Grade	EPCM	
OMV AG	Schwechat	Austria	2005	2006
Biturox® OMV				
Installation of a Biturox® Bitumen plant for production of special road paving bitumen	License, basic design, detail engineering, procurement and supply of the process unit, site supervision, start-up assistance, training and documentation	240 TPD R+B: 80-90 °C,PEN 10-20 Road Grade	Brown field	
			EPCM	
Paramo A.S.	Pardubice	Czech Republic	2005	2006
Biturox® Paramo				
Installation of a Biturox® plant for the production of industrial and road grade bitumen	License, basic design for the process unit, detailed engineering, procurement and supply of the process unit, site supervision, start-up assistance, training and documentation		Brown field	
			EPCM	