

## Experiences & References

### Erection & Commissioning for Chlorine Dioxide Production Plants

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C = Completed  
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SITE	END USER	LOCATION	PLANT TYPE	CLIENT	JOB TYPE	YEAR	STATUS	PRODUCTION CAPACITY	WATER TO BE TREATED
Jebel Ali "G" Station	DEWA	DUBAI (UAE)	DESALINATION	CAFFARO	Chlorine Dioxide Production Plant	2006	C	3x5 kg/h	10.000 m3/h
Dubai "Palm Jumeirah"	DEWA	DUBAI (UAE)	DESALINATION	CAFFARO/ACWA	Chlorine Dioxide Production Plant	2008	C	6x5 kg/h	10.000 m3/h
Jebel Ali "K" Station	DEWA	DUBAI (UAE)	DESALINATION	CAFFARO	Chlorine Dioxide Production Plant	2008	C	3x5 kg/h	10.000 m3/h
Jebel Ali "L" Station	DEWA	DUBAI (UAE)	DESALINATION	FISIA ITALIMPIANTI	Chlorine Dioxide Production Plant	2008	C	2x15 kg/h	15.000 m3/h
Jebel Ali "D1" Station	DEWA	DUBAI (UAE)	DESALINATION	CAFFARO	Chlorine Dioxide Production Plant	2008	C	3x3 kg/h	6.000 m3/h
Jebel Ali "D2" Station	DEWA	DUBAI (UAE)	DESALINATION	CAFFARO	Chlorine Dioxide Production Plant	2008	C	3x3 kg/h	6.000 m3/h
Jebel Ali "E" Station	DEWA	DUBAI (UAE)	DESALINATION	CAFFARO	Chlorine Dioxide Production Plant	2008	C	3x2 kg/h	4.000 m3/h
Shuaibah III	SWCC	Saudi Arabia	DESALINATION	Doosan Heavy Industries	Chlorine Dioxide Production Plant	2009	C	2x10 kg/h	15.000 m3/h
Ras Laffan B QAPCO - Mesaieed	QatarPower Co.	Ras Laffan (Qatar)	DESALINATION	QatarPower Co.	Chlorine Dioxide Production Plant	2009	C	2x10 kg/h	8.500 m3/h
Jebel Ali "M" Station	Qatofin	Mesaieed (Qatar)	PETROCHEMICAL	Archirodon	Chlorine Dioxide Production Plant	2009	C	1x6 kg/h + 2x12kg/h	50.000 m3/h
Jebel Ali "D1" Station	DEWA	DUBAI (UAE)	DESALINATION	FISIA ITALIMPIANTI	Chlorine Dioxide Production Plant	2009	C	1x20 kg/h	26.000 m3/h
Ras Abu Fontas (RAF A1)	QEWC	Doha (Qatar)	DESALINATION	FISIA ITALIMPIANTI	Chlorine Dioxide Production System	2009	C	2x10 kg/h	8.500 m3/h
Saudi Kayan Complex	Saudi Kaian (SABIC GROUP)	Al Jubail (KSA)	PETROCHEMICAL	Fluor	Chlorine Dioxide Production Plant for Potable Water	2009	C	0.2 kg/h	60 m3/h
Saudi Kayan Complex	Saudi Kaian (SABIC GROUP)	Al Jubail (KSA)	PETROCHEMICAL	Fluor	Chlorine Dioxide Production Plant for Seawater Circulation	2009	C	2x70 kg/h	210.000 m3/h
Saudi Kayan Complex	Saudi Kaian (SABIC GROUP)	Al Jubail (KSA)	PETROCHEMICAL	Fluor	Chlorine Dioxide Production Plant for Seawater Intake	2009	C	2x13 kg/h	15.000 m3/h
GSECL Power Project	GSECL	Utran (India)	POWER PLANT	Alstom Power India	Chlorine Dioxide Production Plant	2009	C	1x2 Kg/h + 1x5 Kg/h + 1x33 kg/h	50.000 m3/h
Bawana Power Plant	Pragati Power	Dehli India	POWER PLANT	Thermax India	Chlorine Dioxide Production Plant	2009/2010	C	2x25 Kg/h + 4x35 Kg/h	N/A
Visakhapatnam Steel Plant	Rashtriya Ispat Nigam Limited	Visakhapatnam (INDIA)	STEEL MILL	Vatech/Wabag	Chlorine Dioxide Production Plant	2009/2010	C	2x70 Kg/h + 2x3 Kg/h	25.000 m3/h + 1.000 m3/h
Al Jubail Hadeed Expansion	Hadeed (SABIC GROUP)	Al Jubail (KSA)	STEEL MILL	Dupont/Danieli Engineering	Chlorine dioxide system for cooling water	2010	C	12 Kg/h + 4 Kg/h	15.000 m3/h + 5.000 m3/h
Ras Laffan Industrial City	Ras Laffan Power Company (RLPC)	Qatar	DESALINATION	Ras Laffan Power Company (RLPC)	Chlorine dioxide production plant for potable water treatment	2011	C	2x8,5 kg/h	8.500 m3/h
Ras Abu Fontas RAF (A,B,B2)	Qatar Electricity and Water Co. (QEWC)	Qatar	DESALINATION	Qatar Electricity and Water Co. (QEWC)	Chlorine dioxide production plant for potable water treatment	2011	C	2x5,65 kg/h + 2x3,15 kg/h + 1x5,8 kg/h	23.500 m3/h
Ras Abu Fontas RAF (A,B,B2)		Qatar	SEWAGE TREATMENT PLANT	PROTEC	Chlorine dioxide production plant for potable water treatment	2011	C	2x2 kg/h	1.000 m3/h
Ras Girtas	Ras Girtas Power Company (RGPC)	Qatar	DESALINATION	Ras Girtas Power Company (RGPC)	Chlorine dioxide production plant for potable water treatment	2012	C	2x13 kg/h	13.000 m3/h
Bapco refinery	Bahrain Petroleum Company (BAPCO)	AWALI (Barhain)	REFINERY	BAPCO	Chlorine dioxide production plant for Cooling Water treatment	2011	C	4x25 kg/h	46.000 m3/h
Banagas plant	Barhain National Gas Co. (BANAGAS)	SITRA (Barhain)	FIRE FIGHTING	BANAGAS	Chlorine dioxide production plant for Firefighting Water treatment	2011	C	1x67 gr/h	67 m3/h
Zamzam water plant	Ministry of water	Mekkah, KSA	FRESH WATER TREATMENT	SENDAB/SSEM	Chlorine dioxide production package	2011	C	2x150 gr/h	110 m3/h
Zamzam water plant	Ministry of water	Medinah, KSA	FRESH WATER TREATMENT	SENDAB/SSEM	Chlorine dioxide production package	2011	C	4x30 gr/h	85 m3/h
Antwerpen Industrial Area	Evonik (Degussa group)	Antwerpen (Belgium)	CHEMICAL	Evonik	Chlorine dioxide production package	2012	C	1x20 Kg/h	25.000 m3/h
Karlsruhe Refinery	MIRO	Karlsruhe (Germany)	REFINERY	MIRO	Chlorine dioxide production package	2013	C	1x13 Kg/h	13.000 m3/h
RLIC Polysilicon	QSTec	Ras laffan (Qatar)	CHEMICAL	Acquachemie/ Punj Lloyd	Chlorine dioxide production plant for Cooling Water treatment	2013	C	1x26 Kg/h	26.500 m3/h
Capaccio	Romagna Acque	Forli (Italy)	FRESH WATER TREATMENT	Grundfos	Chlorine dioxide production package	2013	C	1x4 Kg/h	4.000 m3/h
Standiana	Romagna Acque	Forli (Italy)	FRESH WATER TREATMENT	Grundfos	Chlorine dioxide production package	2013	C	1x4 Kg/h + 1x16 kg/h	4.000 m3/h
Dubai-Jebel Ali	EGA/Dubal	Dubai (UAE)	STEEL MILL	Grundfos	Chlorine dioxide production package	2014	C	2x5 kg/h	6.000 m3/h
Ras Laffan Industrial city	Ras Girtas Power Company	Qatar	DESALINATION	Hyundai	Chlorine dioxide production plant for Cooling Water treatment	2014	C	2x80 kg/h	205.000 m3/h
MUNKSJO labelpack	MUNKSJO	Malmedy (Belgium)	PAPER MILL	Kolb	Chlorine dioxide production package	2015	C	1x5kg/h	N/A
MUNKSJO rottersack	MUNKSJO	Lalinde (France)	PAPER MILL	Kolb	Chlorine dioxide production package	2015	C	1x1kg/H	N/A
Stanlow Refinery	Essar Energy	Manchester (England)	REFINERY	Baker Hughes	Chlorine dioxide production package	2015	C	1x20 kg/h	20.000 m3/h

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Qatar Petroleum Dukhan	Qatar Petroleum	Qatar	REFINERY	Grundfos	Chlorine dioxide production package	2015	C	2x300 g/h	725 m <sup>3</sup> /h
Dangote Fertilizer	Dangote/ SAIPEM	Lekki (Nigeria)	CHEMICAL	SAIPEM	Chlorine dioxide production plant for Cooling Water treatment	2015	C	1x27kg/h	92.000 m <sup>3</sup> /h
Capaccio2	Romagna Acque	Forlì (Italy)	FRESH WATER TREATMENT	Grundfos	Chlorine dioxide production package	2016	C	1x4 kg/h	4.000 m <sup>3</sup> /h
YANBU	Marafiq	Saudi Arabia	POTABLE WATER PUMPING STATION	Marafiq	Chlorine Dioxide Production Plant	2016	C	2x3 kg/h	4000 m <sup>3</sup> /h
YANBU	Marafiq	Saudi Arabia	POTABLE WATER PUMPING STATION	Marafiq	Chlorine Dioxide Production Plant	2016	C	2x2 kg/h	3000 m <sup>3</sup> /h
JUBAIL	Marafiq	Saudi Arabia	POTABLE WATER PUMPING STATION	Marafiq	Chlorine Dioxide Production Plant	2016	C	2x0.5 kg/h	450 mc/h
JUBAIL	Marafiq	Saudi Arabia	POTABLE WATER PUMPING STATION	Marafiq	Chlorine Dioxide Production Plant	2016	C	2x2 kg/h	3000 m <sup>3</sup> /h
Umm al Houll SWRO	QEWG	Qatar	DESALINATION	Hitachi	Chlorine Dioxide Production Plant	2016	C	2x26 kg/h	26000 m <sup>3</sup> /h
Arcelor Mittal SWTP	Arcelor Mittal	Poland	STEEL MILL	ENVAG	Chlorine dioxide production package for sewage water treatment	2016	C	2x10 kg/h	N/A
Sitra Expansion Plant	BANAGAS	Bahrain	FIRE FIGHTING	JGC	Chlorine dioxide production package for firefighting water treatment	2017	C	1x62 g/h	67 m <sup>3</sup> /h
Fujeirah	ADWEA	Abu Dhabi	POTABLE WATER PUMPING STATION	TRANSCO	Chlorine Dioxide Production Plant	2017	C	2x20kg/h	15,000 m <sup>3</sup> /h
Karachi	National Refinery	Karachi (Pakistan)	REFINERY	Orient water technologies	Chlorine Dioxide Production Plant	2017	C	2x5kg/h	5,000 m <sup>3</sup> /h
Saltara	Marche multiservizi	Pesaro (Italy)	FRESH WATER TREATMENT	Marche multiservizi	Chlorine dioxide production package	2017	C	2x5kg/h	2,000 m <sup>3</sup> /h
Medina pumping station	SWCC	Medina (Saudi Arabia)	POTABLE WATER PUMPING STATION	KITS	Chlorine dioxide production package	2017	C	2x4kg/h	14.000 m <sup>3</sup> /h
Jebel Ali "M" Station	DEWA	DUBAI (UAE)	DESALINATION	DEWA	Chlorine dioxide production package	2017	C	1x20kg/h	26.000 m <sup>3</sup> /h
DOHA SWRO MEW65	MEW	Doha (KUWAIT)	DESALINATION	Doosan Heavy Industries	Chlorine Dioxide Production Plant	2017	C	3x11 kg/h	25.000 m <sup>3</sup> /h
Lisbona	ACTIPAIL	PORTUGAL	FRESH WATER TREATMENT	Grundfos	Chlorine Dioxide Production Plant	2018	C	1x1kg/h	2.000 m <sup>3</sup> /h
Jebel Ali "L" Station	DEWA	DUBAI (UAE)	DESALINATION	DECO	Chlorine dioxide production package	2018	P	2x8.5kg/h	26.000 m <sup>3</sup> /h
Shriracha PPP	Gulf SRC	THAILAND	PRETREATMENT WATER PLANT	OKAMURA	Chlorine dioxide production package	2018	C	1x0.2kg/h	100 m <sup>3</sup> /h
Shriracha PPP	Gulf SRC Shriracha PPP	THAILAND	COOLING TOWER	OKAMURA	Chlorine dioxide production package	2018	P	3x12kg/h	32.000 m <sup>3</sup> /h
Shriracha PPP	Gulf SRC Shriracha PPP	THAILAND	COOLING TOWER	OKAMURA	Chlorine dioxide production package	2018	P	3x12kg/h	32.000 m <sup>3</sup> /h
Dangote Refinery	DANGOTE	NIGERIA	PRE AND POST TREATMENT	WABAG	Chlorine dioxide production package	2018	P	3x10kg/h+ 2x5kg/h	7000 m <sup>3</sup> /h 400 m <sup>3</sup> /h
HMEL	HMEL	INDIA	PRE AND POST TREATMENT	WABAG	Chlorine dioxide production package	2018	C	4x25kg/h+ 3x12kg/h+ 2x25kg/h	15000 m <sup>3</sup> /h 1700 m <sup>3</sup> /h 400 m <sup>3</sup> /h
SARROCH	SARAS	ITALY	REFINERY	KURITA	Chlorine dioxide production package	2019	C	1x10kg/h	10,000 m <sup>3</sup> /h
Pumping Stations	DEWA	DUBAI (UAE)	POTABLE WATER	SHELLBIRD	Chlorine dioxide production package	2019	P	3xVarious kg/h	various m <sup>3</sup> /h
Al Layyah	SEWA	SHARJA (UAE)	POTABLE WATER	SEWA	Chlorine dioxide production package	2019	P	2x11.5kg/h	11,500 m <sup>3</sup> /h
FOGGIA	ORANGE	ITALY	FOOD INDUSTRY	ORANGE	Chlorine dioxide production package	2019	C	1x1kg/h	250 m <sup>3</sup> /h
JEBEL ALI	DEWA	DUBAI (UAE)	POTABLE WATER	ACCIONA	Chlorine dioxide production package	2019	P	1x3.3kg/h	1,200 m <sup>3</sup> /h
Umm al Houll SWRO	QEWG	Qatar	POTABLE WATER	ACCIONA	Chlorine dioxide production package	2019	P	1x8.5kg/h	12,000 m <sup>3</sup> /h
SHUQAIQ	SWCC	Saudi Arabia	POTABLE WATER	RTCC	Chlorine dioxide production package	2019	P	1x2.6kg/h 1x4.8kg/h 2x2kg/h	various m <sup>3</sup> /h