

**JDEVS**

Air pollution control center

***Dedusting Systems Sales List***

**Electrostatic Precipitator**

**Bag House (Fabric Filter)**

**Gas Conditioning Tower**

<b>Plant/Client</b>	<b>Process</b>	<b>Unit</b>	<b>Construction Year</b>	<b>Production rate (t/d)</b>	<b>Gas Volume (m<sup>3</sup>/min)</b>	<b>Emission (mg/Nm<sup>3</sup>)</b>
<b>Zanjan Bronz Plant</b>	<b>Feromolibden &amp; Renumé</b>	<b>Electrostatic Precipitator</b>	<b>1999</b>	<b>--</b>	<b>--</b>	<b>50</b>
<b>Darab Cement</b>	<b>Kiln Raw Mill</b>	<b>Electrostatic Precipitator</b>	<b>99-2001</b>	<b>3,000</b>	<b>7,512</b>	<b>50</b>
<b>Darab Cement</b>	<b>Clinker Cooler</b>	<b>Electrostatic Precipitator</b>	<b>99-2001</b>	<b>3,000</b>	<b>7,454</b>	<b>50</b>
<b>Darab Cement</b>	<b>Cement Mill (open)</b>	<b>Electrostatic Precipitator</b>	<b>99-2001</b>	<b>3,000</b>	<b>710</b>	<b>50</b>
<b>Darab Cement</b>	<b>Cement Mill (closed)</b>	<b>Electrostatic Precipitator</b>	<b>99-2001</b>	<b>3,000</b>	<b>710</b>	<b>50</b>
<b>Darab Cement</b>	<b>Kiln Raw Mill</b>	<b>Gas Conditioning Tower</b>	<b>99-2001</b>	<b>3,000</b>	<b>8,583</b>	<b>--</b>
<b>Gharb Cement</b>	<b>Kiln Raw Mill</b>	<b>Electrostatic Precipitator</b>	<b>2003-2004</b>	<b>4,000</b>	<b>6,786</b>	<b>50</b>
<b>Gharb Cement</b>	<b>Clinker Cooler</b>	<b>Electrostatic Precipitator</b>	<b>2003-2004</b>	<b>4,000</b>	<b>8,460</b>	<b>50</b>
<b>Gharb Cement</b>	<b>Kiln Raw Mill</b>	<b>Gas Conditioning Tower</b>	<b>2003-2004</b>	<b>4,000</b>	<b>9,904</b>	<b>--</b>
<b>Tehran Cement Line (8)</b>	<b>Kiln Raw Mill</b>	<b>Electrostatic Precipitator</b>	<b>2003-2004</b>	<b>3,400</b>	<b>10,595</b>	<b>20</b>
<b>Tehran Cement Line (8)</b>	<b>Clinker Cooler</b>	<b>Bag House (Two units)</b>	<b>2003-2004</b>	<b>3,400</b>	<b>3,036</b>	<b>10</b>
<b>Tehran Cement Line (8)</b>	<b>Kiln Raw Mill</b>	<b>Gas Conditioning Tower</b>	<b>2003-2004</b>	<b>3,400</b>	<b>14,610</b>	<b>--</b>
<b>Tehran Cement Line (6)</b>	<b>Clinker Cooler</b>	<b>Electrostatic Precipitator</b>	<b>2003-2004</b>	<b>4,800</b>	<b>11,160</b>	<b>30</b>

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<b>Ilam Cement Extension</b>	<b>Kiln Raw Mill</b>	<b>Electrostatic Precipitator</b>	<b>2003-2004</b>	<b>3,300</b>	<b>9114 - 9281</b>	<b>50</b>
<b>Ilam Cement</b>	<b>Clinker Cooler</b>	<b>Electrostatic Precipitator</b>	<b>2003-2004</b>	<b>2,300</b>	<b>6,667</b>	<b>25</b>
<b>Vamitok</b>	<b>Nephelin Pilot Plant</b>	<b>Electrostatic Precipitator</b>	<b>2003-2004</b>	<b>300</b>	<b>78</b>	<b>50</b>
<b>Shahrekord Cement</b>	<b>Kiln Raw Mill</b>	<b>Electrostatic Precipitator</b>	<b>2004-2005</b>	<b>3,000</b>	<b>11,933</b>	<b>50</b>
<b>Shahrekord Cement</b>	<b>Clinker Cooler</b>	<b>Electrostatic Precipitator</b>	<b>2004-2005</b>	<b>3,000</b>	<b>7,676</b>	<b>50</b>
<b>Shahrekord Cement</b>	<b>Cement Mill</b>	<b>Electrostatic Precipitator</b>	<b>2004-2005</b>	<b>3,000</b>	<b>918</b>	<b>50</b>
<b>Shahrekord Cement</b>	<b>Kiln Raw Mill</b>	<b>Gas Conditioning Tower</b>	<b>2004-2005</b>	<b>3,000</b>	<b>11,886</b>	<b>--</b>
<b>Hegmatan Cement</b>	<b>Cement Mill</b>	<b>Bag house (Two units)</b>	<b>2004-2005</b>	<b>3,200</b>	<b>5,280</b>	<b>20</b>
<b>Qeshm Cement</b>	<b>Alkali By-Pass</b>	<b>Electrostatic Precipitator</b>	<b>2004-2005</b>	<b>700</b>	<b>816.00</b>	<b>50</b>
<b>Abyek Cement line (1)</b>	<b>Kiln Raw Mill</b>	<b>Gas Conditioning Tower</b>	<b>2004-2006</b>	<b>8,000</b>	<b>17,382</b>	<b>--</b>
<b>Abyek Cement line (1)</b>	<b>Kiln Raw Mill</b>	<b>Electrostatic Precipitator</b>	<b>2004-2006</b>	<b>8,000</b>	<b>15,250</b>	<b>20</b>
<b>Abyek Cement line (1)</b>	<b>Clinker Cooler</b>	<b>Electrostatic Precipitator</b>	<b>2004-2006</b>	<b>8,000</b>	<b>17,420</b>	<b>17</b>

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<b>Plant/Client</b>	<b>Process</b>	<b>Unit</b>	<b>Construction Year</b>	<b>Production rate (t/d)</b>	<b>Gas Volume (m<sup>3</sup>/min)</b>	<b>Emission (mg/Nm<sup>3</sup>)</b>
<b>Delijan Cement</b>	<b>Kiln Raw/Mill</b>	<b>Electrostatic Precipitator</b>	<b>2006-2007</b>	<b>3,300</b>	<b>8,280</b>	<b>50</b>
<b>Delijan Cement</b>	<b>Clinker Cooler</b>	<b>Electrostatic Precipitator</b>	<b>2006-2007</b>	<b>3,300</b>	<b>5,928</b>	<b>50</b>
<b>Delijan Cement</b>	<b>Kiln Raw Mill</b>	<b>Gas Conditioning Tower</b>	<b>2006-2007</b>	<b>3,300</b>	<b>12,192</b>	<b>--</b>
<b>Abadeh Cement</b>	<b>Kiln Raw/Mill</b>	<b>Electrostatic Precipitator</b>	<b>2006-2007</b>	<b>1,200</b>	<b>2,166</b>	<b>30</b>
<b>Abadeh Cement</b>	<b>Clinker Cooler</b>	<b>Electrostatic Precipitator</b>	<b>2006-2007</b>	<b>1,200</b>	<b>3,168</b>	<b>30</b>
<b>Abadeh Cement</b>	<b>Kiln Raw Mill</b>	<b>Gas Conditioning Tower</b>	<b>2006-2007</b>	<b>1,200</b>	<b>2,958</b>	<b>--</b>
<b>Zabol Cement</b>	<b>Cement Mill</b>	<b>Bag house (Two units)</b>	<b>2006-2007</b>	<b>3,300</b>	<b>7,740</b>	<b>20</b>
<b>Shahroud Cement</b>	<b>Alkali By-Pass</b>	<b>Electrostatic Precipitator</b>	<b>2006-2007</b>	<b>3,300</b>	<b>2,820</b>	<b>50</b>
<b>Shahroud Cement</b>	<b>Alkali By-Pass</b>	<b>Gas Conditioning Tower</b>	<b>2006-2007</b>	<b>3,300</b>	<b>3,372</b>	<b>--</b>
<b>Karoon Cement</b>	<b>Kiln Raw/Mill</b>	<b>Bag House</b>	<b>2006-2007</b>	<b>3,300</b>	<b>13,320</b>	<b>50</b>
<b>Karoon Cement</b>	<b>Clinker Cooler</b>	<b>Electrostatic Precipitator</b>	<b>2006-2007</b>	<b>3,300</b>	<b>5,838</b>	<b>35</b>
<b>Soufian Cement</b>	<b>Kiln Raw/Mill</b>	<b>Electrostatic Precipitator</b>	<b>2006-2007</b>	<b>3,000</b>	<b>7,284</b>	<b>50</b>
<b>Iran Rock Wool Co.</b>	<b>Coke &amp; Silica</b>	<b>Bag Filter</b>	<b>2007-2008</b>	<b>-----</b>	<b>300</b>	<b>50</b>

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<b>Plant/Client</b>	<b>Process</b>	<b>Unit</b>	<b>Construction Year</b>	<b>Production rate (t/d)</b>	<b>Gas Volume (m<sup>3</sup>/min)</b>	<b>Emission (mg/Nm<sup>3</sup>)</b>
<b>Azar Abadegan Khoy Cement</b>	<b>Kiln Raw/Mill</b>	<b>Electrostatic Precipitator</b>	<b>2007-2008</b>	<b>3,300</b>	<b>5,292</b>	<b>50</b>
<b>Azar Abadegan Khoy Cement</b>	<b>Clinker Cooler</b>	<b>Electrostatic Precipitator</b>	<b>2007-2008</b>	<b>3,300</b>	<b>3,833</b>	<b>50</b>
<b>Azar Abadegan Khoy Cement</b>	<b>Kiln Raw Mill</b>	<b>Gas Conditioning Tower</b>	<b>2007-2008</b>	<b>3,300</b>	<b>11,646</b>	<b>50</b>
<b>Saman Gharb Cement Co.</b>	<b>Cement Factory</b>	<b>Bag Filter (61 unit)</b>	<b>2008-2009</b>	<b>2*3500(T/d)</b>	<b>-</b>	<b>20</b>
<b>IRITEC Co. (Khorasan Steel)</b>	<b>Direct Reduction Plant (khorasan steel)</b>	<b>Bag house</b>	<b>2009-2010</b>	<b>-</b>	<b>-</b>	<b>20</b>
<b>SCICO Co.</b>	<b>sarcheshmeh Copper Converter Off-Gas Handling System</b>	<b>Electrostatic Precipitator (3 unit)</b>	<b>2010-2011</b>	<b>-</b>	<b>-</b>	<b>40</b>
<b>Esfahan Steel Co.</b>	<b>Aglomeration</b>	<b>Electrostatic Precipitator (6 unit) , Bag Filter</b>	<b>2010-2012</b>	<b>-</b>	<b>-</b>	<b>50</b>

**Dedusting systems UPGRADING****Reference List****(Electrostatic Precipitator, Gas Conditioning Tower, etc)**

<b>Plant</b>	<b>Process</b>	<b>Line No.</b>	<b>ESP No.</b>	<b>Production rate (t/d)</b>	<b>Manufacturer</b>	<b>Upgrading Year</b>
<b>Tehran Cement</b>	<b>Kiln Raw/Mill</b>	<b>6</b>	<b>1</b>	<b>4,000</b>	<b>Elex</b>	<b>1999</b>
<b>Tehran Cement</b>	<b>Kiln Raw/Mill</b>	<b>6</b>	<b>2</b>	<b>4,000</b>	<b>Elex</b>	<b>1999</b>
<b>Tehran Cement</b>	<b>Kiln Raw/Mill</b>	<b>4</b>	<b>1</b>	<b>2,100</b>	<b>Lurgi</b>	<b>1999</b>
<b>Tehran Cement</b>	<b>Kiln Raw/Mill</b>	<b>4</b>	<b>---</b>	<b>2,100</b>	<b>FLS miljo</b>	<b>2000</b>
<b>Tehran Cement</b>	<b>Kiln Raw/Mill</b>	<b>4</b>	<b>2</b>	<b>2,100</b>	<b>Lurgi</b>	<b>2000</b>
<b>Abyek Cement</b>	<b>Kiln Raw/Mill</b>	<b>1</b>	<b>---</b>	<b>3,500</b>	<b>Lurgi</b>	<b>2000-2001</b>
<b>Taj Plant</b>	<b>Detergent</b>	<b>---</b>	<b>2</b>	<b>---</b>	<b>---</b>	<b>2001</b>
<b>Abadan Oil Refinery</b>	<b>Catalytic Cracking</b>	<b>---</b>	<b>---</b>	<b>---</b>	<b>Cottrel</b>	<b>2001</b>
<b>Loushan Cement</b>	<b>Kiln Raw/Mill</b>	<b>---</b>	<b>---</b>	<b>3,000</b>	<b>Lurgi</b>	<b>2003</b>
<b>Abyek Cement</b>	<b>Kiln Raw/Mill</b>	<b>1</b>	<b>---</b>	<b>3,500</b>	<b>Lurgi</b>	<b>2003</b>

**Dedusting systems UPGRADING  
Reference List  
(Electrostatic Precipitator, Gas Conditioning Tower, etc)**

<b>Plant</b>	<b>Process</b>	<b>Line No.</b>	<b>ESP No.</b>	<b>Production rate (t/d)</b>	<b>Manufacturer</b>	<b>Upgrading Year</b>
Tehran Cement	Kiln Raw/Mill	2	---	2,300	Lurgi	2003
Tehran Cement	Cement Mill	5	---	1,000	Lurgi	2004
Abyek Cement	Kiln Raw/Mill	2	3	4,000	Lurgi	2004-2005
Abyek Cement	Kiln Raw/Mill	2	4	4,000	Lurgi	2004-2005
Darab Cement	Kiln Raw/Mill	---	---	3,500	FLS	2005
Ekbatan Cement	Kiln Raw/Mill	---	---	500	PSP	2005
Estahban Cement	Gas Conditioning Tower	---	---	1,200	UZIN	2005
Gharb Cement	Cement Mill	---	---	---	Humboldt	2006-2007
Abadan Oil Refinery	Catalytic Cracking	---	---	---	Cottrel	2007
Kerman Cement	Kiln Raw/Mill	2	---	2,000	Humboldt	2007

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<b>Plant</b>	<b>Process</b>	<b>Line No.</b>	<b>ESP No.</b>	<b>Gas volume (m<sup>3</sup>/h)</b>	<b>Manufacturer</b>	<b>Upgrading Year</b>
<b>Isfahan Steel Co.</b>	<b>Coal tar collecting</b>	---		---	<b>Russian</b>	<b>2007</b>
<b>Khatoon Abad smelt</b>	<b>Copper industry</b>	<b>Flash ESP (2 units)</b>		<b>40,000 (each)</b>	<b>Elex</b>	<b>2007</b>
<b>Khatoon Abad smelt</b>	<b>Copper industry</b>	<b>Dryer ESP (1 unit)</b>		<b>90,000 (each)</b>	<b>Elex</b>	<b>2007</b>
<b>Khatoon Abad smelt</b>	<b>Copper industry</b>	<b>Converter ESP (2 units)</b>		<b>30,000 (each)</b>	<b>Elex</b>	<b>2007</b>
<b>Khatoon Abad smelt</b>	<b>Copper industry</b>	<b>Converter ESP (2 units)</b>		<b>30,000 (each)</b>	<b>Elex</b>	<b>2008</b>
<b>Khatoon Abad smelt</b>	<b>Copper industry</b>	<b>Converter ESP (2 units)</b>		<b>30,000 (each)</b>	<b>Elex</b>	<b>2009</b>
<b>Ardakan Pelletizing Compelex (CMIC)</b>	<b>Pelletizing</b>	---		---	<b>FLS</b>	<b>2010</b>