

Instrument Materials

LEGENDS: Acronym Codes for EPC Clients

| Acronym | EPC Client Name | | | | | | |
|---------|------------------------|-----|--------------------------|-----|---------------------|-----|----------------------|
| DIC | Daelim Industrial Corp | HHI | Hyundai Heavy Industries | PSC | POSCO E&C | STX | STX Heavy Industries |
| DWC | Daewoo E&C | HWC | Hanwha E&C | PSE | POSCO Engineering | TYE | TOYO Engineering |
| GSC | GS E&C | KCC | KCC E&C | SKC | SK E&C | | |
| HDEC | Hyundai E&C | KEP | Kepeco E&C | SSC | Samsung C&T | | |
| HEC | Hyundai Engineering | LTC | Lotte E&C | SSE | Samsung Engineering | | |

| EPC | PROJECT | PLANT TYPE | CLIENT | COUNTRY | Supply Items | YEAR |
|--------|-------------------------------------|------------|---|------------|---------------------------------|------|
| HDEC | UGTL | Gas | OLTIN YO'L GTL | Uzbekistan | Compressor | 2018 |
| HDEC | Mixed Xylane | Refinery | Hyundai Oil Bank Co., Ltd. | Korea | Steam Tracing Piping | 2016 |
| HDEC | Mixed Xylane | Chem. | Hyundai Oil Bank Co., Ltd. | Korea | Steam Tracing Tube | 2016 |
| Hanhwa | UMM WU'AL PHOSPATE | Mine | MA'ADEN WA'AD AL-SHAMAL PHOSPATE COMPANY | K.S.A. | Piping & Rubber lining, Support | 2016 |
| HHI | Jazan Refinery & Terminal EPC#2 | Oil & Gas | Aramco | K.S.A. | Instrument Support | 2015 |
| HEC | Musandam Gas Plant | Oil & Gas | Oman Oil company Exploration & Production LLC | Oman | Instrument Valve | 2015 |
| Hanhwa | UMM WU'AL PHOSPATE | Mine | MA'ADEN WA'AD AL-SHAMAL PHOSPATE COMPANY | K.S.A. | Piping & Rubber lining, Support | 2015 |
| HEC | Attock Refinery Limited Upgradation | Refinery | Attock Refinery Ltd. | Pakistan | Instrument Support | 2014 |
| HEC | Attock Refinery Limited Upgradation | Refinery | Attock Refinery Ltd. | Pakistan | Instrument Support | 2014 |
| HEC | Attock Refinery Limited Upgradation | Refinery | Attock Refinery Ltd. | Pakistan | Instrument Support | 2014 |
| HDEC | Borouge 3 Utilities & Offsites | Chem. | Abu Dhabi Polymers Company Ltd. | U.A.E | Instrument Tubing | 2014 |
| HDEC | Satah Al Razboots Package 4 | Refinery | ADMA-OPCO | U.A.E | Instrument Support | 2014 |
| HDEC | TLAB | Chem. | | Thailand | Instrument Tubing | 2014 |

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|------|---|------------|--------------------------------------|--------------|--------------------------|------|
| HDEC | TLAB | Chem. | | Thailand | Instrument Tubing | 2014 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Steam Tracing | 2014 |
| HEC | Diluted and Concentrated Phosphoric Acid Production | Chem. | Groupe Chinique Tunisien | Tunisia | Instrument Support | 2014 |
| HEC | Diluted and Concentrated Phosphoric Acid Production | Chem. | Groupe Chinique Tunisien | Tunisia | Instrument Support | 2014 |
| HEC | Ustyurt Gas Chemical Complex Utilities & Offsites | Chem. | Uz-Kor Gas Chemical | Uzbekistan | Instrument Steam Tracing | 2014 |
| HEC | Compressor Station | Chem. | Gas Transmission Company Limited | Bangladash | Instrument Tubing | 2013 |
| HEC | Compressor Station | Chem. | Gas Transmission Company Limited | Bangladash | Instrument Support | 2013 |
| HEC | Compressor Station | Chem. | Gas Transmission Company Limited | Bangladash | Instrument Support | 2013 |
| HEC | Compressor Station | Chem. | Gas Transmission Company Limited | Bangladash | Instrument Support | 2013 |
| HEC | Compressor Station | Chem. | Gas Transmission Company Limited | Bangladash | Instrument Support | 2013 |
| HEC | Compressor Station | Chem. | Gas Transmission Company Limited | Bangladash | Instrument Support | 2013 |
| HDEC | Al Khalij 4x350MW PP | Power | General Electricity Company of Lybia | Libya | Instrument Support | 2013 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | Instrument Support | 2013 |
| HDEC | Jurong Rock Cavern Phase 1 | Oil & Gas | Jurong Town Corporation | Singapore | Instrument Tubing | 2013 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Tubing | 2013 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Support | 2013 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Tubing | 2013 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Tubing | 2013 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Tubing | 2013 |

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|------|---|------------|---|--------------|--------------------------|------|
| HEC | Musandam Gas Plant | Chem. | Oman Oil company Exploration & Production LLC | Oman | Instrument Support | 2013 |
| HEC | Musandam Gas Plant | Chem. | Oman Oil company Exploration & Production LLC | Oman | Instrument Valve | 2013 |
| HEC | Musandam Gas Plant | Chem. | Oman Oil company Exploration & Production LLC | Oman | Instrument Steam Tracing | 2013 |
| HEC | Olkaria IAU Geothermal Power Plant | Power | Kenya Electricity Generating Company Ltd. | Kenya | Instrument Support | 2013 |
| HDEC | Ras Laffan C IWPP | Power | Ras Girtas Power Company | Qatar | Instrument Support | 2013 |
| HEC | Rumaila Gas Turbine Power Plant | Power | Ministry of Electricity | Iraq | Instrument Support | 2013 |
| HEC | Rumaila Gas Turbine Power Plant | Power | Ministry of Electricity | Iraq | Instrument Support | 2013 |
| HDEC | Ma'aden Alumina Refinery | Chem. | MBAC | K.S.A | Instrument Tubing | 2013 |
| HEC | Taza Gas Turbine Power Plant | Chem. | Ministry of Electricity | Iraq | Instrument Support | 2013 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Tubing | 2013 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Valve | 2013 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Valve | 2013 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Piping | 2013 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Tubing | 2013 |
| HEC | Termotasajero 2 x 161.6 MW CFPP | Power | Termotasajero S.A ESP | Columbia | Instrument Support | 2013 |
| HEC | Ustyurt Gas Chemical Complex Utilities & Offsites | Oil & Gas | Uz-Kor Gas Chemical | Uzbekistan | Instrument Support | 2013 |
| HEC | Ustyurt Gas Chemical Complex Utilities & Offsites | Oil & Gas | Uz-Kor Gas Chemical | Uzbekistan | Instrument Steam Tracing | 2013 |
| HEC | Group III Base Oil Production Facilities | Oil & Gas | Abu Dhabi Oil Refining Company | U.A.E | Instrument Tubing | 2013 |
| HEC | Group III Base Oil Production Facilities | Oil & Gas | Abu Dhabi Oil Refining Company | U.A.E | Instrument Tubing | 2013 |

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|------|--|------------|---|--------------|--------------------|------|
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | Control valve | 2012 |
| HEC | Compressor Station | Oil & Gas | Gas Transmission Company Limited | Bangladesh | Instrument Support | 2012 |
| HDEC | Borouge 3 Utilities & Offsites | Oil & Gas | Abu Dhabi Polymers Company Ltd. | U.A.E | Instrument Tubing | 2012 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | DBB Valve | 2012 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | Instrument Piping | 2012 |
| HDEC | JETU | Oil & Gas | | K.S.A | Instrument Support | 2012 |
| HDEC | Jurong Rock Cavern Phase 1 | Power | Jurong Town Corporation | Singapore | Instrument Tubing | 2012 |
| HDEC | Jurong Rock Cavern Phase 1 | Power | Jurong Town Corporation | Singapore | Instrument Tubing | 2012 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Support | 2012 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Support | 2012 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Tubing | 2012 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Tubing | 2012 |
| HEC | Musandam Gas Plant | Chem. | Oman Oil company Exploration & Production LLC | Oman | Instrument Valve | 2012 |
| HEC | MMA-2D | Chem. | | Korea | Instrument Tubing | 2012 |
| HEC | MMA-2D | Chem. | | Korea | Instrument Support | 2012 |
| HEC | MMA-2D | Chem. | | Korea | Instrument Tubing | 2012 |
| HEC | MMA-2D | Chem. | | Korea | Instrument Valve | 2012 |
| HEC | Rumaila Gas Turbine Power Plant | Power | Ministry of Electricity | Iraq | Instrument Support | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Valve | 2012 |

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|------|---|------------|--------------------------------|--------------|--------------------|------|
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Piping | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Valve | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Tubing | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Piping | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Valve | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Piping | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Tubing | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Valve | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Tubing | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Piping | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Tubing | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Piping | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Tubing | 2012 |
| HEC | Turkmenistan Gas Desulfurization Plant | Oil & Gas | Turkmengas | Turkmenistan | Instrument Valve | 2012 |
| HEC | Diluted and Concentrated Phosphoric Acid Production | Chem. | Groupe Chinique Tunisien | Tunisia | Instrument Tubing | 2012 |
| HEC | Diluted and Concentrated Phosphoric Acid Production | Chem. | Groupe Chinique Tunisien | Tunisia | Instrument Support | 2012 |
| HEC | Group III Base Oil Production Facilities | Oil & Gas | Abu Dhabi Oil Refining Company | U.A.E | Instrument Tubing | 2012 |
| HEC | Group III Base Oil Production Facilities | Oil & Gas | Abu Dhabi Oil Refining Company | U.A.E | Instrument Support | 2012 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | Control valve | 2011 |

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|------|--|------------|---------------------------------|---------|--------------------|------|
| HDEC | HDO#2 HOU | Refinery | Hyundai Oil Bank Co., Ltd. | Korea | Steam Tracing | 2011 |
| HEC | Group III Base Oil Production Facilities | Oil & Gas | Abu Dhabi Oil Refining Company | U.A.E | Steam Tracing | 2011 |
| HEC | Arzew Refinery Plant | Refinery | Sonatrach S.P.A | Algeria | Instrument Tubing | 2011 |
| HDEC | Borouge 3 Utilities & Offsites | Oil & Gas | Abu Dhabi Polymers Company Ltd. | U.A.E | Instrument Tubing | 2011 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | Instrument Tubing | 2011 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | DBB Valve | 2011 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | DBB Valve | 2011 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Tubing | 2011 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Tubing | 2011 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Tubing | 2011 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Support | 2011 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Support | 2011 |
| HDEC | KOC Pipeline Part A | Oil & Gas | Kuwait Oil Company | Kuwait | Instrument Tubing | 2011 |
| HDEC | Karan Gas Field Development | Oil & Gas | Aramco | K.S.A | Instrument Tubing | 2011 |
| HDEC | Yeosu Oil Tank Terminal | Tankage | Oilhub Korea Yeosu Co., Ltd. | Korea | DBB Valve | 2011 |
| HEC | QUDUS | Power | | Iraq | Instrument Support | 2011 |
| HEC | QUDUS | Power | | Iraq | Instrument Support | 2011 |
| HDEC | Ras Laffan C IWPP | Power | Ras Girtas Power Company | Qatar | Instrument Support | 2011 |
| HDEC | Ras Laffan C IWPP | Power | Ras Girtas Power Company | Qatar | Instrument Support | 2011 |

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|------|--|------------|--------------------------------|--------------|------------------------------------|------|
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Piping | 2011 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Piping | 2011 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Piping | 2011 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Tubing | 2011 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Tubing | 2011 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Valve | 2011 |
| HDEC | HDO#2 HOU | Refinery | Hyundai Oil Bank Co., Ltd. | Korea | Pre Insulated Tube (Steam Tracing) | 2010 |
| HDEC | HDO#2 HOU | Refinery | Hyundai Oil Bank Co., Ltd. | Korea | Pre Insulated Tube (Steam Tracing) | 2010 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | DBB Valve | 2010 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | Instrument Piping | 2010 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | Instrument Piping | 2010 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | Instrument Piping | 2010 |
| HDEC | Habshan 5 Utilities & Offsites | Oil & Gas | GASCO | U.A.E | Instrument Tubing | 2010 |
| HDEC | Karan Gas Field Development | Oil & Gas | Aramco | K.S.A | Instrument Tubing | 2010 |
| HEC | Dinh Vu Polyester Plant | Chem. | PVTEX., JSC | Vietnam | 3 Way Valve | 2010 |
| HEC | Dinh Vu Polyester Plant | Chem. | PVTEX., JSC | Vietnam | Instrument Valve | 2010 |
| HEC | Turkmenistan Gas Desulfurization Plant | Chem. | Turkmengas | Turkmenistan | Instrument Tubing | 2010 |
| HEC | Group III Base Oil Production Facilities | Oil & Gas | Abu Dhabi Oil Refining Company | U.A.E | Instrument Tubing | 2010 |
| HEC | Turkmenistan Gas Desulfurization | Chem. | Turkmengas | Turkmenistan | Instrument Valve | 2009 |