

LIST OF THE MAIN JOBS PERFORMED

Equipment & Description of the Job	Client / Plant	Period
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Relining of 8.25 meters of cylindrical area ➤ Relining of manway neck ➤ Repair of liner ➤ Repair of support cleats 	<p>PETROVIETNAM FERTILIZER AND CHEMICAL CORPORATION Phu My – Vung Tau VIETNAM</p>	March / April 2023
<p><u>AMMONIA PRIMARY REFORMER</u></p> <ul style="list-style-type: none"> ➤ Replacement of No. 288 Catalyst tubes 	<p>SOHAR INTERNATIONAL UREA AND CHEMICAL INDUSTRIES LLC Port of Sohar Sultanate of Oman</p>	February / March 2023
<p><u>No.1 BIMETALLIC HP UREA STRIPPER Unit 01</u></p> <ul style="list-style-type: none"> ➤ Shortening in-situ (without removing the stripper from its position) ➤ Modification of the protrusion of tubes on the bottom tubesheet from 5mm to 18mm ➤ Remaking of all bottom tube to tubesheet welds 	<p>IFFCO Indian Farmers Fertilizer Co. PHULPUR II Unit Ghiyanagar, UP INDIA</p>	May / June 2022
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Partial relining ➤ Repair and replacement of tray supports ➤ Repair of existing liner <p><u>AMMONIA PRIMARY REFORMER</u></p> <ul style="list-style-type: none"> ➤ Welding of Catalyst tubes 	<p>OMIFCO Oman India Fertilizer Company SAOC SUR Sultanate of Oman</p>	March / April 2022
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Opening of trays, inspection and repair of liner welds ➤ Installation of No. 6 new SAIPEM Supercups® trays <p><u>HP PROCESS PIPING</u></p> <ul style="list-style-type: none"> ➤ Opening and box up of HP valves and flanges ➤ Modification of HP lines to improve alignment and reduce leaks 	<p>GPIC Gulf Petrochemical Industries Co. Al-Manama BAHRAIN</p>	March 2022
<p><u>No. 2 BIMETALLIC HP UREA STRIPPERS Unit 31/41</u></p> <ul style="list-style-type: none"> ➤ Shortening in-situ (without removing the stripper from its position) ➤ Modification of the protrusion of tubes on the bottom tubesheet from 5mm to 18mm ➤ Remaking of all bottom tube to tubesheet welds 	<p>IFFCO Indian Farmers Fertilizer Co. PHULPUR II Unit Ghiyanagar, UP INDIA</p>	January/February 2022
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Relining of top dome ➤ Relining of 6 courses on cylindrical area <p><u>HP PROCESS PIPING</u></p> <ul style="list-style-type: none"> ➤ Replacement of No. 9 elbows 	<p>PETRONAS CHEMICALS FERTILIZER KEDAH Gurun. Kedah Malaysia</p>	June / July 2021
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Relining of 12.4 meters of cylindrical area ➤ Repair of liner ➤ Installation of supports for new Supercups tray 	<p>BRANCH OF PETROVIETNAM FERTILIZER AND CHEMICAL CORPORATION Phu My – Vung Tau VIETNAM</p>	April / May 2021
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Partial relining ➤ Repair and replacement of tray supports ➤ Repair of existing liner 	<p>OMIFCO Oman India Fertilizer Company SAOC SUR Sultanate of Oman</p>	February / March 2021

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<p><u>TITANIUM AMMONIA CONDENSER</u></p> <ul style="list-style-type: none"> ➤ Remove of plugs ➤ Partial retubing (68 tubes) 	<p>GPIC Gulf Petrochemical Industries Co. Al-Manama BAHRAIN</p>	March 2020
<p><u>TITANIUM STEAM CONDENSER</u></p> <ul style="list-style-type: none"> ➤ Removal of No. 5 tubes ➤ Plugging of No. 5 + 5 holes 	<p>SABIC – Saudi Arabian Basic Company. At AR-RAZI A SABIC AND JAPAN SAUDI ARABIA METHANOL COMPANY AL JUBAIL KINGDOM OF SAUDI ARABIA</p>	March 2020
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Partial relining ➤ Repair and replacement of tray supports ➤ Repair of existing liner 	<p>OMIFCO Oman India Fertilizer Company SAOC SUR Sultanate of Oman</p>	February / March 2020
<p><u>SOLID 25.22.2 HP STRIPPER</u></p> <ul style="list-style-type: none"> ➤ Modification of internals ➤ Replacement of ferrules <p><u>HP CARBAMATE SEPARATOR</u></p> <ul style="list-style-type: none"> ➤ Repair ➤ Relining 	<p>YARA ITALIA SPA At YARA ITALIA urea plant FERRARA, Italy</p>	November 2019
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Relining of No. 2 courses ➤ Replacement of No. 2 trays ➤ Replacement of No. 2 elbows in the distributors 	<p>YARA ITALIA SPA At YARA ITALIA urea plant FERRARA, Italy</p>	September / October 2019
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Partial relining ➤ Repair 	<p>CASALE SA At TOGLIATTIAZOT Togliatti Russia</p>	September / October 2019
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Replacement of neck liner and gasket seat on top manway ➤ Relining of 5m ➤ Repair of 100% of welds liner and tray supports 	<p>FERTILIZANTES NITROGENADOS VENEZUELA (FERTINITRO) Barcelona VENEZUELA</p>	February / March 2019
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Installation of new SUPERCUPS® TRAY #18 	<p>PETROVIETNAM CAMAU FERTILIZER JOINT STOCK COMPANY Ca Mau Vietnam</p>	August 2018
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Relining of 15.5m <p><u>CARBAMATE CONDENSER</u></p> <ul style="list-style-type: none"> ➤ Partial relining of channel <p><u>HP PROCESS PIPING</u></p> <ul style="list-style-type: none"> ➤ Modification 	<p>PETRONAS CHEMICALS FERTILIZER KEDAH Gurun. Kedah Malaysia</p>	July / August 2018

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<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Relining of the area between tray #14 and bottom tangent line ➤ Replacement of nozzle N1 <p><u>CARBAMATE SEPARATOR</u></p> <ul style="list-style-type: none"> ➤ Rehabilitation <p><u>HP PROCESS PIPING</u></p> <ul style="list-style-type: none"> ➤ Repair and modification 	<p>GPIC Gulf Petrochemical Industries Co. Al-Manama BAHRAIN</p>	April 2018
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Relining of top dome ➤ Relining of 8.2 meters of cylindrical area ➤ Repair of liner 	<p>BRANCH OF PETROVIETNAM FERTILIZER AND CHEMICAL CORPORATION Phu My – Vung Tau VIETNAM</p>	November / December 2017
<p><u>BIMETALLIC UREA HP STRIPPER</u></p> <ul style="list-style-type: none"> ➤ Shortening in-situ (without removing the stripper from its position) ➤ Modification of the protrusion of tubes on the bottom tubesheet from 5mm to 18mm ➤ Remaking of all bottom tube to tubesheet welds 	<p>KRIBHCO FERTILIZERS LTD. PIPROLA, Shahajhnpur, UP INDIA</p>	September / October 2017
<p><u>BIMETALLIC UREA HP STRIPPER</u></p> <ul style="list-style-type: none"> ➤ Shortening in-situ (without removing the stripper from its position) ➤ Modification of the protrusion of tubes on the bottom tubesheet from 5mm to 18mm ➤ Remaking of all bottom tube to tubesheet welds 	<p>IFFCO Indian Farmers Fertilizer Co. AONLA Unit Bareilly, UP INDIA</p>	July/August 2017
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Complete replacement of titanium liner by cutting and re-welding the top portion of the pressure shell 	<p>CHITTAGONG UREA FERTILIZER LTD. Chittagong, Bangladesh.</p>	March / July 2017
<p><u>BIMETALLIC UREA HP STRIPPER</u></p> <ul style="list-style-type: none"> ➤ Shortening in-situ (without removing the stripper from its position) ➤ Modification of the protrusion of tubes on the bottom tubesheet from 5mm to 18mm ➤ Remaking of all bottom tube to tubesheet welds 	<p>IFFCO Indian Farmers Fertilizer Co. AONLA Unit Bareilly, UP INDIA</p>	June / July 2016
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Removal and replacement of No. 1 liner course ➤ Modification of carbamate inlet and solution outlet lines 	<p>YARA ITALIA SPA At YARA ITALIA urea plant FERRARA, Italy</p>	May / June 2016
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Complete removal and replacement of titanium liner by cutting open the pressure shell 	<p>CHITTAGONG UREA FERTILIZER LTD. Chittagong, Bangladesh.</p>	September / December 2015
<p><u>SOLID 25.22.2 HP STRIPPER</u></p> <ul style="list-style-type: none"> ➤ Machining of the stripper tubes top end ➤ Modification of the stripper ferrules ➤ Design and fabrication of new grid 	<p>YARA ITALIA SPA At YARA ITALIA urea plant FERRARA, Italy</p>	September / November 2015

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<p><u>UREA SYNTHESIS REACTOR</u> ➤ Second phase of relining SOLID 25.22.2 HP STRIPPER ➤ Supply of ferrules for Urea Stripper</p>	<p>YARA ITALIA SPA At YARA ITALIA urea plant FERRARA, Italy</p>	September / November 2015
<p><u>UREA SYNTHESIS REACTOR</u> ➤ Repair, modification and relining HP PROCESS PIPING ➤ Modification</p>	<p>PETRONAS CHEMICALS FERTILIZER KEDAH Gurun. Kedah Malaysia</p>	May / June 2015
<p><u>UREA SYNTHESIS REACTOR</u> ➤ Relining of 10.6m of cylindrical area. CARBAMATE SEPARATOR ➤ Rehabilitation HP PROCESS PIPING ➤ Repair and modification</p>	<p>GPIC Gulf Petrochemical Industries Co. Al-Manama BAHRAIN</p>	April 2015
<p><u>UREA SYNTHESIS REACTOR</u> ➤ Repair of titanium liner</p>	<p>CHITTAGONG UREA FERTILIZER LTD. Chittagong, Bangladesh.</p>	November / December 2014
<p><u>UREA SYNTHESIS REACTOR</u> Item R501-2: ➤ Replacement of all tray supports ➤ Installation of new trays ➤ Repair of liner welds ➤ Relining of top dome</p>	<p>STATE COMPANY OF SOUTHERN FERTILIZERS – SCF Khor Al Zubair IRAQ</p>	September / October 2014
<p><u>UREA SYNTHESIS REACTOR</u> ➤ Second phase of relining – relining of lower half and bottom dome.</p>	<p>BANGLADESH CHEMICAL INDUSTRIES CORPORATION At JAMUNA FERTILIZER COMPANY LTD TARAKANDI, JAMALPUR BANGLADESH</p>	June / July 2014
<p><u>UREA SYNTHESIS REACTOR</u> Item R501-1: ➤ Replacement of all tray supports ➤ Installation of new trays ➤ Repair of liner welds ➤ Relining of top dome</p>	<p>STATE COMPANY OF SOUTHERN FERTILIZERS – SCF Khor Al Zubair IRAQ</p>	May 2014
<p><u>SOLID 25.22.2 HP UREA STRIPPER</u> ➤ Emergency repair</p>	<p>KOCH FERTILIZER CANADA, ULC. Brandon (MB) CANADA</p>	December 2013
<p><u>METHANOL CONVERTER</u> ➤ Repair and re-welding of 304H and Incoloy 800 tubes</p>	<p>OMAN METHANOL Oman</p>	December 2013
<p><u>AMMONIA CONVERTER</u> ➤ Repair under Nitrogen blanket</p>	<p>PROMAN A.G., Germany At: CNC AMMONIA PLANT Trinidad and Tobago</p>	November 2013

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<p><u>CARBAMATE CONDENSER</u> ➤ Emergency repair</p>	<p>PETRONAS CHEMICALS FERTILIZER KEDAH Gurun. Kedah Malaysia</p>	October 2013
<p><u>TITANIUM HP UREA STRIPPER</u> ➤ Replacement of top channel <u>HP PROCESS PIPING</u> ➤ Modification – replacement of spools</p>	<p>SABIC Saudi Basic Industries Co. At: SAFCO IBN AL BAYTAR PLANT Al Jubail KINGDOM OF SAUDI ARABIA</p>	April 2013
<p><u>UREA SYNTHESIS REACTOR</u> ➤ Relining of 10.6m of cylindrical area. <u>HP PROCESS PIPING</u> ➤ Replacement of reactor-o-stripper and carbamate separator-to-reactor line</p>	<p>GPIC Gulf Petrochemical Industries Co. Al-Manama BAHRAIN</p>	November 2012
<p><u>UREA SYNTHESIS REACTOR</u> ➤ Relining of 8m of cylindrical area <u>HP PROCESS PIPING</u> ➤ Modification, replacement of elbows and spools</p>	<p>PETRONAS CHEMICALS FERTILIZER KEDAH Gurun. Kedah Malaysia</p>	September 2012
<p><u>AMMONIA CONVERTER</u> ➤ Extensive repair <u>HP PROCESS PIPING</u> ➤ Partial replacement</p>	<p>KAFCO Karnapuli Fertilizer Company LTD. Chittagong BANGLADESH</p>	May 2012
<p><u>TITANIUM HP UREA STRIPPER</u> ➤ Emergency repair of titanium liner</p>	<p>SABIC Saudi Basic Industries Co. At: SAFCO IBN AL BAYTAR PLANT Al Jubail KINGDOM OF SAUDI ARABIA</p>	January / February 2012
<p><u>UREA SYNTHESIS REACTOR</u> ➤ Relining of top dome and 8m of cylindrical portion</p>	<p>YARA ITALIA SPA At YARA ITALIA urea plant FERRARA, Italy</p>	May / June 2011
<p><u>TITANIUM HP UREA STRIPPER</u> ➤ Relining of top channel</p>	<p>SABIC Saudi Basic Industries Co. At: SAFCO IBN AL BAYTAR PLANT Al Jubail KINGDOM OF SAUDI ARABIA</p>	April / May 2011
<p><u>UREA SYNTHESIS REACTOR</u> ➤ Replacement of top manway liner and gasket seating ring</p>	<p>SABIC Saudi Basic Industries Co. At: SAFCO IBN AL BAYTAR PLANT Al Jubail KINGDOM OF SAUDI ARABIA</p>	April 2011
<p><u>ZIRCONIUM HP UREA STRIPPER</u> ➤ Inspection and repair.</p>	<p>PROFERTIL Bahia Blanca ARGENTINA</p>	September 2010

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<p>UREA SYNTHESIS REACTOR</p> <ul style="list-style-type: none"> ➤ Relining of Urea Total Recycle Secondary Reactor. 	<p>KOCH FERTILIZER CANADA, ULC. Brandon (MB) CANADA</p>	June / July 2010
<p>UREA SYNTHESIS REACTOR</p> <ul style="list-style-type: none"> ➤ Relining of top dome and of 22.5 meters of the cylindrical portion. ➤ Supply of bolts, nuts and washers for the sieve trays. 	<p>BANGLADESH CHEMICAL INDUSTRIES CORPORATION At JAMUNA FERTILIZER COMPANY LTD Tarakandi, Jamalpur BANGLADESH</p>	April / May 2010
<p>UREA SYNTHESIS REACTOR</p> <ul style="list-style-type: none"> ➤ Relining of the area included between tray #1 and tray #5. ➤ Repair of liner welds. <p>HP PROCESS PIPING</p> <ul style="list-style-type: none"> ➤ Modification of high pressure piping for the installation of a new stripper. <p>BIMETALLIC HP UREA STRIPPER</p> <ul style="list-style-type: none"> ➤ Repair of the tube-to-tubesheet welds and the channel liner of the old stripper 	<p>GPIC Gulf Petrochemical Industries Co. Al-Manama BAHRAIN</p>	February / March 2010
<p>TITANIUM HP UREA STRIPPER</p> <ul style="list-style-type: none"> ➤ Repair of liner and tube-to-tubesheet welds and replacement of cover strips. 	<p>CHONGQING JIANGFENG CHEMICAL COMPANY Baitao Town, Fuling District, Chongqing CHINA</p>	November 2009
<p>UREA SYNTHESIS REACTOR</p> <ul style="list-style-type: none"> ➤ Supply and installation of top hoist. ➤ Repair of liner welds. ➤ Supply and installation of No. 5 new sieve trays. ➤ Supply of material for overflow pipe. 	<p>PETRONAS CHEMICALS FERTILIZER KEDAH Gurun. Kedah Malaysia</p>	August 2009
<p>UREA SYNTHESIS REACTOR</p> <ul style="list-style-type: none"> ➤ Emergency repair of the liner welds. 	<p>PETRONAS CHEMICALS FERTILIZER KEDAH Gurun. Kedah Malaysia</p>	December 2007 / January 2008
<p>UREA SYNTHESIS REACTOR</p> <ul style="list-style-type: none"> ➤ Replacement of the gasket seating ring on the manhole flange. ➤ Relining of the top dome and 1.5 meters of the cylindrical portion. ➤ Repair of liner welds. ➤ Supply and installation of No. 9 new sieve trays. <p>BIMETALLIC HP UREA STRIPPER</p> <ul style="list-style-type: none"> ➤ Repair of tube-to-tubesheet welds. 	<p>GPIC Gulf Petrochemical Industries Co. Al-Manama BAHRAIN</p>	November 2007
<p>UREA SYNTHESIS REACTOR</p> <ul style="list-style-type: none"> ➤ Relining of 7.5 meters of the cylindrical portion between tray #5 and tray #9. ➤ Supply and installation of load-limiting device for the top hoist. <p>TITANIUM HP UREA STRIPPER</p> <ul style="list-style-type: none"> ➤ Relining of the top channel. 	<p>SABIC Saudi Basic Industries Co. At: SAFCO IBN AL BAYTAR PLANT Al Jubail KINGDOM OF SAUDI ARABIA</p>	June 2007

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<p><u>AMMONIA PRIMARY REFORMER</u></p> <ul style="list-style-type: none"> ➤ Re-design and replacement of No. 1 complete coil ➤ Replacement of No. 2 headers and No. 1 row of finned tubes on a second coil ➤ Replacement of No. 1 header in a third coil. <p><u>SOLID 25.22.2 HP STRIPPER</u></p> <ul style="list-style-type: none"> ➤ Modification of gasket type from Delta to Cam Profile, with replacement of the gasket seating ring, on the high pressure flanges. ➤ Supply of ferrules and ferrule stay grid for No. 2 strippers. <p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Modification of gasket type from Delta to Cam Profile, with replacement of the gasket seating ring, on the manhole flange. 	<p>YARA ITALIA SPA Ferrara ITALY</p>	<p>October 2006</p>
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Repair of tray supports 	<p>FERILIZANTES NITROGENADOS DE VENEZUELA (FERTINITRO) Barcelona, VENEZUELA</p>	<p>October 2005</p>
<p><u>UREA SYNTHESIS REACTOR</u></p> <ul style="list-style-type: none"> ➤ Installation of load-limiting device in the reactor's top hoist. ➤ Installation of new liner strips over the existing liner at tray #13 and #14 elevation. ➤ Repair of liner welds. ➤ Replacement of overflow pipe. <p><u>H.P. PROCESS PIPING</u></p> <ul style="list-style-type: none"> ➤ Replacement of stub ends <p><u>BIMETALLIC H.P. UREA STRIPPER</u></p> <ul style="list-style-type: none"> ➤ Repair of bimetallic stripper tube-to-tubesheet welds. 	<p>GPIC Gulf Petrochemical Industries Co. Al-Manama, BAHRAIN</p>	<p>June 2005</p>