



AURUM ENGINEERING GmbH

PLANT DESIGN * INDUSTRIAL ENGINEERING * PROCESS TECHNOLOGY

Reference-list of the works carried out by *Aurum Engineering GmbH*

| No | Plant | Description of works | Year of implementation |
|----|---|--|------------------------|
| 1 | Krylov Shipbuilding Research Institute, Saint-Petersburg, Russia | Pumping station equipment: managing the project, designing of the pumping station and electric system, equipment supply, supervision at the job site during installation, setup and commissioning, staff training for operation and further technical maintenance. | 2013 |
| 2 | Zaporizhstal JSC Zaporozhye | Designer supervision of construction progress of the systems of evaporative cooling and process water cooling of blast furnace №4 cooling plates of Zaporizhstal JSC. | 2014 |
| 3 | Zaporizhstal JSC Zaporozhye | Development of design documentation on cooling system of stack cooling plates and blast furnace №2 boshes of Zaporizhstal JSC. | 2014 |
| 4 | ArcelorMittal Kryvyi Rih PJSC, Ukraine Kryvyi Rih | Designer supervision and issuing of technical documentation on the construction progress of the system of evaporative cooling with forced circulation of blast furnace №6. | 2014 |
| 5 | Azovstal Iron and Steel Works PJSC | 2-Grade overhaul repair of blast furnace №4 | 2014 |
| 6 | Poltavskiy Iron Ore Mining and Processing Works OJSC Kremenchuh | Project of dry gas purification cyclones replacement (with fire-proof lining) | 2014 |
| 7 | ArcelorMittal Temirtau Temirtau, Kazakhstan | 2-Grade overhaul repair of blast furnace №4 Blast furnace cooling system. High-line bunkers reconstruction. Bell-less top construction. Layout of pipelines for hydraulics and lubrication. | 2014 |
| 8 | Eurocement-Ukraine PJSC Balakleya | Development of technical solutions for reconstruction of cement grinding mill № 10 gas purification | 2015 |
| 9 | ArcelorMittal Kryvyi Rih PJSC, Ukraine | The main design solutions for blast furnace workshop №2. | 2015 |



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| | | Reconstruction of blast furnace №9. | |
| 10 | <i>Zaporizhstal JSC</i> Zaporozhye | Development of the project and documentation on the blast furnace № 3 cooling systems of <i>Zaporizhstal JSC</i> | 2015 |
| 11 | <i>ArcelorMittal Kryvyi Rih</i> PJSC, Ukraine | Project and documentation on replacement of the BF №9 air heater №2 . | 2015 |
| 12 | Mariupol Ilyich Iron and Steel Works PJSC | Development of the project on 2-grade overhaul repair of BF №4 | 2015 |
| 13 | Aral district, Kyzylorda region, Kazakhstan Republic | Thermal power plant Water treatment system. | 2015 |
| 14 | <i>Mironovsk</i> thermal power plant | We are carrying out preparatory works for assembly of the vertical pump (with capacity of 16 000 m ³ /h) produced by Aurum Pumpen GmbH; cooled water supply to thermal power plant. | 2015 |
| 15 | <i>PJSC "AZOVSTAL"</i> <i>Mariupol, Ukraine</i> | Reconstruction of the aspiration system for crushing of the section of the bulk and ferroalloys warehouse of the converter shop of PJSC "MK" AZOVSTAL ". | 2016 |
| 16 | <i>PJSC "ArcelorMital Temirtau"</i> <i>Temirtau, Republic of Kazakhstan</i> | Reconstruction of a common blast furnace gas manifold with a diameter 3020 mm. | 2016 |
| 17 | <i>KP Slavonic City Council</i> <i>"Slavgorodvodokanal"</i> <i>Slavyansk, Ukraine</i> | Ukraine "Dispatching and automation of the operation of SPS # 1, 1A, 5, 14 (technical re-equipment)" | 2016 |



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| 18 | <i>LLP "ARAL SODA" Aralsk The Republic of Kazakhstan</i> | Feasibility study for the construction of "Soda ash plant with 300 thousand tons of soda ash per year" (Aral region, Kyzylorda region, Republic of Kazakhstan). Thermal power plant. GPP 110/6 kV. | 2017 |
| 19 | <i>PJSC "AZOVSTAL" Mariupol Ukraine</i> | Work on the technical inspection of process pipelines, service areas and gas pipeline columns, metal structures of saturator complexes, and development of project documentation for the TsUi with the PJSC "MK" Azovstal " | 2018 |
| 20 | <i>PJSC SevGOK1.2</i> | Development of design and estimate documentation for the "Project" stage and the "Working documentation" stage within the framework of the project "Reconstruction of gas cleaning of the Lurgi" -552-A firing machine. | 2018 |
| 21 | <i>PJSC "Dneprovsky Metkombinat"</i> | "Reconstruction of the converter shop with modernization of the gas cleaning equipment of the rotary kiln No. 2 of the UVP OPI". Development of the project and working documentation | 2018 |