


GAS TURBINE

Equipment	Solution	Project name	Unit	Year
Gas Turbine	Equipment + Spare Part + Service	Maintenance : HSPT module exchange & Hot Section @ Gas Compression Station	1	2015
Gas Turbine	Spare Part + Service	Improvement : Replacement Turbine Mid Frame (TMF) @ Gas Compression Station	1	2019
Gas Turbine	Equipment + Spare Part + Service	Improvement : Refurbished Gas Turbine @ Gas Compression Station	1	2020
Gas Turbine	Equipment	Improvement : Upgrade Gas Turbine control system @ Gas Compression Station	3	2022

COMBUSTION

Equipment	Solution	Project name	Unit	Year
Burner	Spare Part + Service	Maintenance : Best Practices for Burner @ Olefins plant	1,360	2018
Burner	Spare Part	Maintenance : 2 year Sparepart for Burner @ Olefins Plant	900	2020
Burner	Equipment	Improvement : Burner replacement @ Refinery plant	514	2021
Burner	Equipment	Maintenance : Burner replacement for Turnaround @ Refinery plant	315	2021
Burner	Equipment + Service	Improvement : Installation & Commissioning new burner @ Refinery Plant	48	2021

VAPOR COMBUSTION UNIT

Equipment	Solution	Project name	Unit	Year
Vapor Combustion Unit	Spare part	Maintenance : Inventory MM Instrument part for VCU @ Aromatics Plant	1	2022
Vapor Combustion Unit	Spare part	Maintenance : Inventory MM in Blower tag for VCU @ Aromatics Plant	1	2022


FLARE SYSTEM

Equipment	Solution	Project name	Unit	Year
Flare	Equipment	Improvement : Flare Modification @Refinery plant	1	2021
Flare	Equipment	Maintenance : Flare Replacement @ Offshore platform	1	2023
EGF	Equipment	Improvement : Modification existing EGF @ Olefins plant	1	2021
EGF	Equipment	Expansion : New EGF @ Olefins plant	1	2021
EGF	Equipment	Improvement : New Enclosed Ground Flare @ LNG Terminal	1	2024
Elevated Flare	Equipment + Service	Improvement : Supervision Service in Modifying AMFFG panel's downstream FFG pipe for Low Pressure Elevated Flare @ Olefins plant	1	2022
Elevated Flare - AMFFG Ignition Panel	Equipment + Service	Maintenance : Inspection Service & Witness of ignition control system installation & start-up @ Propylene Plant	1	2023

HEAT EXCHANGER

Equipment	Solution	Project name	Unit	Year
Heat Exchanger	Equipment	Maintenance : Complete Hairpin Heat Exchanger @ Gas Compression Station	2	2015
Heat Exchanger	Spare Part	Improvement : Heat duty for Heat existing shell and tube @ Gas Separation Plant	4	2016
Heat Exchanger	Spare Part	Improvement : Twisted Tube Bundle @ Aromatics Plant	2	2016
Heat Exchanger	Equipment	Improvement : Tube Bundle for Hairpin Heat Exchanger @ Refinery Plant	4	2018
Heat Exchanger	Equipment	Improvement : Heat Exchanger material upgrade @ Aromatics plant	2	2021


MASS TRANSFER

Equipment	Solution	Project name	Unit	Year
Column	Spare Part + Service	Improvement : Column (Paraxylene Product Maximization) @ Aromatics Plant	3	2018
Column	Spare Part	Improvement: Column @Refinery plant	5	2018
Mist eliminator	Equipment +Service	Maintenance : FSE for demister installation @Olefin Plant	1	2022
Column	Equipment	Expansion: Column Internal for new column @PTA plant	4	2022
Column	Spare Part	Maintenance: Urgent Supply of Random Packing @Intermediate Petrochem	2	2022
Column	Spare Part	Improvement: 50 floors of Column @Phenol plant	1	2023

Organic Rankine Cycle (ORC)

Equipment	Solution	Project name	Unit	Year
ORC	Spare Part	Maintenance : Refurbish ORC Turbine Machine @ LNG terminal	1	2022
ORC	Spare parts + Service	Maintenance : Best practice- ORC / Lube oil pump @ LNG terminal (Field service)	1	2023
ORC	Spare Parts	Maintenance : 2 years inventory MM - ORC system @ LNG Terminal	1	2024
ORC	Service	Maintenance : Preventive and Corrective Service @ LNG Terminal	1	2024

CONTROL VALVE

Equipment	Solution	Project name	Unit	Year
Control Valve	Spare Part + Service	Maintenance : Turnaround Maintenance 2015 @ Gas Separation Plant	178	2015

FILTRATION

Equipment	Solution	Project name	Unit	Year
Element & Filter	Equipment + Service	Improvement : Fuel Gas treatment skid @ Gas Separation Plant	3	2007