

## Technical Corporation Project in 2021

Project No.	Project	CP	Country
Basic Survey			
BS-01(AE)-2021	Chemical Workshop	ADNOC	UAE
BS-02(AE)-2021	Engineering Workshop	ADNOC	UAE
BS-03(OM)-2021	OQ and JCCP Joint Workshop Energy Efficiency Improvement in Petroleum Refining	OQ	Oman
Project Formation Study			
P-01(SA)-2021	Exchange Project of good practice in refineries of KSA and Japan	Saudi Aramco	Saudi Arabia
P-02(SA)-2021	Study of environmental measures for crude oil shipping terminal in Middle East area (Saudi Arabia)	Saudi Aramco	Saudi Arabia
P-03(SA)-2021	Technical Investigation of SPH Process and SPERA Hydrogen System for Decarbonaization in Saudi Arabia -2	Saudi Aramco	Saudi Arabia
P-04(SA)-2021	The Joint Study on CO2 Reduction Technology of Petroleum Sector	Saudi Aramco	Saudi Arabia
P-05(SA)-2021	Development of Catalytic Reactors for Utilization of Ammonia	Saudi Aramco	Saudi Arabia
P-06(SA)-2021	Integrity Enhancement of FCC Unit Expansion Bellows Joint	Petro Rabigh (Saudi Aramco)	Saudi Arabia
P-07(AE)-2021	SurveyofSourGasSweetening Process Application	Saudi Aramco /ADNOC/KNPC	Saudi Arabia, UAE, Kuwait
P-08(AE)-2021	Feasibility Study for liquefid hydrogen production in Middle East	ADNOC	UAE
P-09(QA)-2021	Plant Operation Improvement with AI Technology (Qatar)	QG	Qatar
P-10(KW)-2021	Improvement for Efficiency, Reliability, Productivity in KNPC Facilities	KNPC	Kuwait
P-11(ID)-2021	Re-optimization study of Kaltim-3 complex in Bontang, Indonesia	PT. Pupuk Kalimantan Timur (Kaltim)	Indonesia
P-12(MM)-2021	Support for building the test management system for petroleum products	MOEE PPRD	Myanmar
PA-01(FP)-2021	Technical cooperation for Optimization of Operations in Bataan Refinery	PETRON	Philippines
PA-02(ID)-2021	The study for the unit improvement to stable operation at refinery in Indonesia	Pertamina	Indonesia
Joint Project			
T-01(SA)-2021	Research & Development of Selective Propylene Production Technology from Lower Olefins	Saudi Aramco	Saudi Arabia
T-02(SA)-2021	Improvement of road infrastructure quality by utilizing Polymer Modified Bitumen technology	Saudi Aramco (KFUPM)	Saudi Arabia
T-03(SA)-2021	Collaboration to apply the advanced inspection technologies for Saudi Aramco	Saudi Aramco	Saudi Arabia
T-04(AE)-2021	Technical Cooperation Program for the Water Environmental Conservation of the ADNOC Refinery (UAE)	ADNOC	UAE
T-05(SA)-2021	Steam System Optimization Program (SSOP) Pilot Project in Saudi Aramco	Saudi Aramco	Saudi Arabia
T-06(AE)-2021	Joint Project for Pilot Model Installation of PV System at Yas North Service Satation, Abu Dhabi	ADNOC Distribution	UAE
T-07(AE)-2021	JOINT SUPPORT with ADNOC Refining Research Centre Division for ADNOC Refining Refinery Operation (UAE) Phase II	ADNOC Refining	UAE
T-08(AE)-2021	Joint Project for the Enhancement of Oil Spill Response Abilities of ADNOC Group	ADNOC	UAE
T-09(IQ)-2021	Technical Support of Formation Water Treatment for Refineries in Southern Region of Iraq	PRDC(BOC)	Iraq
T-10(OM)-2021	Joint Project for Local Treatment Alternative Pilot for Exported Refinery Hazardous Waste	SQU/OQ	Oman
T-11(VN)-2021	Modernization of LPG industry in Vietnam	PV Gas/PV Gas LPG	Viet Nam
T-12(VN)-2021	Technical cooperation to improve refinery competitiveness in Vietnam Phase-2	BSR	Viet Nam
T-13(VN)-2021	Enhancement of Operation Management at Petroleum Product Terminals Phase3	Petrolimix	Viet Nam
T-14(ID)-2021	Plant reliability & integrity improvement with optimum maintenance and inspection system in Indonesia	Pertamina	Indonesia
T-15(ID)-2021	The Collaboration Project with Pertamina/PGN to Improve the Gas Value Chain in Indonesia by Using INPEX's Experience and Expertise of "Naoetsu Model"	PGN	Indonesia
T-16(MM)-2021	Joint Project for The Quality Control System of Petroleum in Myanmar Phase 2	MPE	Myanmar
T-17(MY)-2021	Joint Project for the treatment of refinery waste in Malaysia	Petronas	Malaysia
TB-01(SA)-2021	The development and deployment of CAN-X for SAUDI ARAMCO and JV refineries to improve process efficiency	Saudi Aramco	Saudi Arabia
TB-02(TH)-2021	Technical Collaboration for Improvements of Maintenance and Operations in Bangchak Refinery	Bangchak Refinery	Thailand