

**FY2022 Technical Cooperation Programs**

Number	Title	Counter Part	Country
<b>Basic Survey</b>			
BS-01(IQ)-2022	Iraq catalyst development workshop	PRDC	Iraq
BS-02(KW)-2022	[Addition during term] Survey to understand the actual situation in Kuwait, a country expected to become a CO2-free ammonia business development	KPC/KNPC/KOTC	Kuwait
BS-03(KW)-2022	[Addition during term] Survey to understand the actual situation in Kuwait, a country expected to become a CO2-free hydrogen supply chain business development	KPC/KNPC/KOC/KIPI C	Kuwait
<b>Project Formation Study</b>			
P-01(SA)-2022	Exchange Project of good practice in refineries of KSA and Japan	Saudi Aramco	Saudi Arabia
P-02(SA)-2022	The Joint Study on H2 Value-chain using Chemical Hydride and Technical Collaboration (Saudi Arabia)	Saudi Aramco	Saudi Arabia
P-04(AE)-2022	Feasibility Study for liquefied hydrogen production in Middle East (Phase 2)		UAE
P-05(AE)-2022	Feasibility study for carbon offset in Japan with CCS, CCUS and CO2-EOR in UAE	ADNOC	UAE
P-06(KW)-2022	Improvement for Efficiency, Reliability, Productivity in KNPC Facilities	KNPC	Kuwait
P-07(OM)-2022	Steam System Optimization Program (SSOP) Pilot Project at OQ (Oman)	OQ	Oman
P-08(OM)-2022	Feasibility Study for Energy Saving and Environmental Improvement in Sohar Refinery (New FGRS Feasibility Study)	OQ	Oman
P-09(ID)-2022	Development of re-optimization study of Kaltim-3 Complex in Bongtang, Indonesia	Kaltim	Indonesia
P-10(ID)-2022	Agro-forestation of Rubber Tree for producing Carbon Neutral Oil	PERTAMINA	Indonesia
P-11(MM)-2022	Support for building the management system for petroleum products of Myanmar	(PPRD)	Myanmar
PA-01(FP)-2022	[Asia Business Development Support] Technical cooperation for Optimization of Operations in Bataan Refinery	PETRON	Philippines
<b>Joint Technical Cooperation Project</b>			
T-01(SA)-2022	Improvement of road infrastructure quality by utilizing Polymer Modified Bitumen	Saudi Aramco	Saudi Arabia
T-02(SA)-2022	Collaboration to apply the advanced inspection technologies for Saudi Aramco	Saudi Aramco	Saudi Arabia
T-03(SA)-2022	Steam System Optimization Program (SSOP) Pilot Project in Saudi Aramco	Saudi Aramco	Saudi Arabia
T-04(SA)-2022	Selective Production of Propylene from Light Naphtha	Saudi Aramco	Saudi Arabia
T-05(AE)-2022	Joint Project for the Enhancement of Oil Spill Response Abilities of ADNOC Group-Phase II	ADNOC	UAE
T-06(AE)-2022	Joint Support with ADNOC Refining Research Centre & Quality Control Division(ARRC) for ADNOC Refining Refinery Operation (UAE) Phase III	ADNOC Refining	UAE
T-07(AE)-2022	Joint Project for Pilot Model Installation of PV System at Yas North Service Satation, Abu Dhabi	ADNOC Distribution	UAE
T-08(IQ)-2022	Technical Support of Formation Water Treatment for Refineries in Southern Region of Iraq	PRDC(BOC)	Iraq
T-09(ID)-2022	The Collaboration Project with Pertamina/PGN to Improve the Gas Value Chain in Indonesia by Using INPEX's	PGN	Indonesia
T-10(ID)-2022	Plant reliability & integrity improvement with the digital twin for maintenance in Indonesia	PERTAMINA	Indonesia
T-11(VN)-2022	Enhancement of Operation Management at Petroleum Product Terminals Phase3	Petrolimex	Vietnam
T-12(VN)-2022	Technical Cooperation to improve refinery competitiveness in Vietnam Phase-II	BSR	Vietnam
T-13(VN)-2022	Modernization of LPG industry in Vietnam	PV Gas/ PV Gas LPG	Vietnam
T-14(MM)-2022	Joint Project for the Quality Control System of Petroleum on Myanmar Phase 2	(MPE)	Myanmar
T-15(TH)-2022	Technical Collaboration for Operation Improvements in Bangchak Refinery	Bangchak Corporation PCL	Thailand
T-16(MY)-2022	Joint Project for the treatment of refinery waste in Malaysia	Petronas/MRCSB	Malaysia
TB-01(SA)-2022	[Business Development Support] The development and deployment of CAN-X for SAUDI ARAMCO and JV refineries to improve process efficiency	Saudi Aramco	Saudi Arabia