

Failure Investigation Projects

No.	Client	Details	Year
1	ADVANCED Petrochemicals Company	Failure Investigation of Air Outlet Nozzle Liners And Expansion Joints of Air Outlet Header Catofin Reactors	2016
		Failure investigation of eh actuator inlet oil pipe fitting	2015
		Failure investigation of sea water pump roller bearing	
		Failure investigation of 2-E-5001 Baffle Plate Bolt	
		Failure investigation of fin fan shaft	
		Failure investigation of roller bearing	
		Failure investigation of bearing samples	2016
		Failure investigation of propylene pump motor (5-PM-8201) bearing	2017
		Failure investigation of wedge and stem of upstream manual isolation valve	2021
2	SABIC (KEMYA)	Failure investigation of fin fan blade	
3	Nesma & Partners Company	Failure investigation of 90 deg. Elbow 2" (304SS)	
4	Saudi Chevron Company (SCHEM)	Failure investigation of U-bolts	
		Failure investigation of process water pipe	
		Failure investigation of water wall tube	
		Failure investigation of superheater tube	
		Failure investigation of U Tube of Exchanger	
		Failure investigation of Radiant tube	2016
		Failure Analysis of Cracked Outlet Line	2018
		Failure investigation of 1.25 inch pipe of hot combustor window-2 in burner air piping	2018
		Failure investigation of 4 inch burner pipe of window-4 in hot combustor	2018
		Failure investigation of 8X6 inch concentric reducer in cold combustor unit	2018
		Failure investigation of bolts of working reel	2020
Failure investigation of Finned condenser tubes	2020		

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		FI OF 4' Condensate Line	2020
		Failure assessment of tube of dilution steam generator	2021
		Failure investigation of ½" pipe of catalyst feed line	2021
		Failure investigation of finned tube of excess steam condenser	2021
		Failure investigation of swage elbow of convection wall tube panel	2021
		Failure investigation of ½" pressure tapping sockolet on inlet manifold header of furnace	2021
		Failure investigation of 41P23A discharge pipe	2022
		Failure investigation of broken bolt	2022
		Failure investigation of shaft coupling	2022
		Failure investigation of surface condenser bellow	2022
		Failure investigation of furnace tube	2022
		Failure investigation of melted flare tip with process deposit	2023
		Failure investigation of runner end cap with process deposit	2023
		Failure investigation of ground flare system	2023
		Failure investigation of ground flare system	2023
		Failure investigation of GB bearing	2023
		Failure investigation of Pump bearing	2023
		Failure investigation of exchanger 41E95A tube	2023
		Failure investigation of exchanger 41E96 tube	2023
		Failure investigation of 16" deformed pipe sample from 55X01-PE-STAGE-03	2023
		Failure investigation of 24" deformed pipe sample from 55X01-PE-STAGE-05	2023
		Failure investigation of coupling	2023
		Failure investigation of 41F09 inlet manifold sockolet weld crack	2023
5	SABIC (Saudi Kayan)	Failure investigation of tube	
		Failure investigation of primary quench exchanger	
		Failure investigation of shaft	
		Failure investigation of pipe	
		Failure investigation of de-superheater	

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		Failure investigation of thinned tube	
		Failure investigation of cracked tube	
		Failure investigation of Cu-Ni tube	
		Failure investigation of valve stem	
		Failure investigation of U-bend tube	
		Failure investigation of 4" spool piece	
		Failure investigation of equal Tee 3/4" Stress line	2016
		Failure investigation of annular plate samples	2016
		Failure investigation of broken pieces of shaft	2016
		Failure investigation of flexible hose	2016
		Failure investigation of non-metallic nozzle	2016
		Failure investigation of flexible hose pipe of lube oil pump discharge line	2017
		Failure investigation of bucket conveyor	2017
		Failure investigation of failed internally line elbow	2017
6	TASNEE	Failure investigation of shaft	
		Failure investigation of heat exchanger tube	
		Failure investigation of elbow	
		Failure investigation of outlet nozzle	
		Failure investigation of 4" pipe	
		Failure investigation of 4" tie rod	
		Failure investigation of valve stem	
		Failure investigation of furnace drain pipe	
		Failure investigation of studs	
		Failure investigation of 90 deg. elbow	
		Failure investigation of finned tube	
		Failure investigation of hyper compressor 2C cylinder	
		Failure investigation of connection rod of BOG Compressor	
Failure investigation of 76mm diameter Radiant Coil			

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		Failure investigation of(3/8") diameter of pump tube	
		Failure investigation of super-heater coil	
		Failure Investigation of Piston Rod	2017
		Failure Analysis for flue Gas cooler	2018
		Failure investigation of piston rod of primary first stage BP compressor	2019
		Failure investigation of outlet pigtail #78 of steam reformer	2020
		Failure investigation of outlet pigtail #145 of steam reformer	2020
		Metallurgical investigation of BFW preheater tube elbow	2020
		Failure investigation of superheater coil	2021
		Failure investigation of flexible hose of paddle dryer	2021
		Failure investigation of ruptured radiant coil	2022
		Failure investigation of bulged radiant coil	2022
		Failure investigation of fractured sleeve bolts	2023
7	SABIC (UNITED)	Failure investigation of shaft	
		Failure investigation of shell	
		Failure investigation of valve stem	
		Metallurgical investigation of HE tube of exchanger #E-3604	2020
		Failure investigation of C-2310 E-12" nozzle	2023
8	Crystal Global Co., Yanbu	Failure investigation of elbow	
		Failure investigation of pipe	
		failure investigation of Tickle preheater pipe A and B from B-301 A coils	
		failure investigation of flexible hose	
		Failure investigation of bolts	
		Failure investigation of super-heater tube	
		Failure investigation of damper plate	2016
		Failure investigation of pinion shaft in phosphoric acid plant	2016

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9	MAADEN (Aluminium & Phosphate)	Failure investigation of belt support roller	2017
		Failure investigation of tube of sulfuric acid cooler	2017
		Failure investigation of Sulfuric Acid Plant (SAP 5A) cooler 5A53-E01 tube	2017
		Failure Investigation of ruptured tube	2018
		Failure Investigation of bulged tube	2018
		Failure Investigation of pin holed tube	2018
		Failure investigation of waste heat boiler tubes#SAP-A-02	2019
		Failure investigation of waste heat boiler tubes #SAP A-01	2019
		Failure investigation of knife gate valve#01ABO	2019
		Failure investigation of Reactor agitator blade in PAP	2019
		Failure investigation of Reactor agitator blade in PAP	2019
		Failure investigation of dividing wall tube	2020
		Failure investigation of superheater tube	2020
		Failure investigation of superheater tube	2020
		Failure investigation of tube #R2T4 of Lean solution cooler 31A30-HEX-003	2020
		FAILURE INVESTIGATION OF JPU OUTLET 10" SPOOL	2021
		FAILURE INVESTIGATION OF JPU OUTLET 10" ELBOW	2021
		Failure investigation of rake drive pinion tooth	2021
		Failure investigation of wire rope of crane	2021
		Failure investigation of tube bend of feed/steam preheater	2021
		Failure investigation of top baffle plates of feed/steam preheater	2021
		Failure investigation of interstage cooler exchanger tube	2021
		Failure investigation of multi effect distillation unit tube	2022
		Failure investigation of Sea Water pump support bearing plate	2023
		Failure investigation of Jug Seat Valve	2023
		Failure investigation of ruptured tube	2023
Failure investigation of oxidized tube	2023		
Failure investigation of cracked ring liner	2023		

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		Failure investigation of HP Steam superheater tube	2023
		Failure investigation of SS304, TV1174 liner plate	2023
		Failure investigation ammonia 2 lean solution cooler tube	2023
10	SABIC TECHNOLOGY CENTER	Failure investigation of Elbow	
		Failure investigation of Thermowell	
		M24 U-bolts	
		Eo Gas Cooler Tube Sheet Welds	
		SD-10-0015 (boiler bank tube)	
		Bowel & shaft	
		Tubes	
		Boiler feed water pump	
		Economiser weld joint	
		SF-10-0035 (scrubber tube)	
		Tube Sheet Knuckle	
		SF-10-0036 (condenser tube)	
		SS bolts	
		dehydrator cooler tubes	
		26" elbow	
		Shell plates	
		Flanges	
		Bearing case	
		Chilled water evaporator copper tube	
Multi stage pump shaft			
Single stage pump shaft			
11	Luberef	Failure investigation of Pipe spool of services water line	
		Failure investigation of LP Condensate Line	
		Failure investigation of M-1001-C-Ejector	
		Failure investigation of effluent water line	2022
12	GPIC, Bahrain	Failure investigation of Methanol Storage Tank – Bottom Plate	2015

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		Failure investigation of Methanol Storage Tank – Annular Plate	2015
		Failure investigation of Boiler Furnace Tube – B5203	2016
		Failure investigation of Ferrules in Waste Heat Boiler E0801	2016
		Failure investigation of ruptured boiler tube	2017
		Failure investigation of dented boiler tube	2017
		Failure investigation of leaked economizer tube	2017
		Failure investigation of reformer tubes (MOC: Centralloy 4852 Micro)	2018
		Failure Investigation of Stub end piece	2018
		Failure investigation of P-8801-B discharge line	2023
13	Saudi Aramco Total Refining and Petrochemicals company (SATORP)	Failure investigation of Bed 4 packing material : VDU Column 011-C-0003	2019
		Failure Investigation of broken yoke nut of globe valve hand wheel	2019
		Failure investigation of inlet piping flange of reactor furnace	2020
14	Saudi Railway	Failure Investigation of 14 broken springs	2016
15	NOMAC	Failure investigation of broken stud	2016
		Failure investigation of condenser tube	2021
		Failure investigation of boiler tube	2023
16	Q-Chem	Failure investigation of PTFE gas inlet nozzle	2016
		Failure investigation of feed 2 preheater tubes of furnace convection section	2016
		Failure investigation of HS piping and weld	2017
17	Shelf Drilling	Failure investigation of drilling pipe	2016
18	Samsung Engineering	Failure investigation of 3 No of failed cooling water pipes	2016
		Failure investigation of defected cladded piping spool	2023
		Failure investigation of 8" 3/4" NIPOLET	2023
19	Chemanol	Failure investigation of outer tubes of H335 twin pass re-boiler	2017
		Failure investigation of methanol reformer tube	2017
		Failure investigation of inner tubes of acetaldehyde reactor R-01	2019
		Failure investigation of outer tubes of acetaldehyde reactor R-01	2019
20	MARAFIQ (YANBU)	Failure investigation of tube: MED-10 evaporator Effect	2017

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21	SIPCHEM	Failure investigation of PDH reactor outer screen weld failure	2017
		Failure investigation of PDH rectore inner screen bottom ring failure	2017
		Failure investigation of titanium tubes of chlorine recuperator#E12103	2019
		Failure investigation of carbon steel tube OF EDC circulation cooler#E21001	2019
		Failure investigation of finned carbon steel tube of condenser# E-43502	2019
		Failure investigation of studs of main isolation valve of 3"line	2021
		Failure investigation of MOC #A403-WP321H welded BE reducer section	2023
		Failure investigation of MOC #A403-WP321H welded BE with crack in weld	2023
		Failure investigation of nozzle F1/F7 - 14-R1110 for IAC plant	2023
		Failure investigation of PDH CCR chlorine leak	2023
22	NATPET	Failure investigation of damaged shell of dryer scrubber	2017
23	YASREF (SANKYU)	Failure investigation of jacket flexible hose	2017
		Failure investigation of Sulfur Pump	2021
24	SWCC	Failure Investigation of water wall tube	2018
25	Baker Hughes	FI of Flex Joint	2015
		Failure investigation of swivel	2018
		Failure investigation of swivel pipe type 80 - MKSAP3-SW-0589	2019
		Condition assessment of swivel pipe 3" type 80 - MKSA-P3-SW-0573	2019
		Failure investigation of bolts of working reel#C-20	2020
		Failure investigation of Spear Mandrel	2021
		Failure investigation of 2" CT pipe	2021
Failure investigation of coiled tubing	2023		
26	JOMEL	Failure Investigation of broken bolts	2018
27	Gulf Steel Works	Failure Analysis of Skid collet to tee joint	2018
28	SADAF-SABIC	Failure mode analysis of broken gear teeth	2018
29	SAFCO-SABIC	Failure investigation of 2006-J Bearing Housing and Pad	2018

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30	Ratnamani Metals and Tubes	Failure investigation of NPS pipe in flare piping system line in KOD Area	2018
31	IBN-ZAHR (SABIC)	Failure investigation of THRUST BEARING PAD	2019
32	SHUQAIQ Water and Electricity Co.	Failure investigation of furnace front waterwall tube no. 9 in boiler#2	2019
33	Saudi Arabian Engineering Co. (SAECO)	Failure investigation of chuck jaw of heavy-duty rotor turning lathe machine	2020
34	Hisaka ME	Failure investigation of plates of GT#1 lube oil cooler	2020
35	SEPCO III (PP 14 Project)	FAILURE INVESTIGATION OF 90- DEGREE LR ELBOW OF WASTE WATER DRAIN SYSTEM	2020
		FAILURE INVESTIGATION OF 90° LR ELBOW TO PIPE WELD JOINT IN SERVICE WATER SYSTEM	2021
36	SINOPEC	Failure investigation of eccentric reducer	2021
37	GE	Failure investigation of pipe of filtered water system	2021
		Failure investigation of 8" line of filtered water system	2022
		Failure investigation of 6" line of filtered storage water system	2022
38	SAIPEM	Failure investigation of X-over sub of size 6-5/8"	2021
39	ARABIAN AXLE	Failure investigation of AS axle beam	2021
40	YANSAB (SABIC)	Failure investigation of Pressure Gauge connection of Coil A-7	2021
		Failure investigation of pressure gauge connection of coil B-9	2021
		Failure investigation of extraction steam turbine gasket	2022
		Failure investigation of 4" furnace pipe section with bulging	2022
		Failure investigation of 4" furnace pipe section with fracture	2022
		Failure investigation of drain flange bolts	2022
		Failure investigation of clamped flange	2022
		Failure investigation of SS316 ¼" instrument tube with dent around nut area	2022
		Failure investigation of SS316 ½ " instrument tube with crack around nut area	2022
		Failure investigation of catalyst hose	2023
41	APS Technology (KASAB)	Failure investigation of Pipe of turbine alternator flow sub	2021

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42	FARABI PETROCHEMICALS	Failure investigation of heat exchanger U bend	2021
43	IMCC	Failure investigation of ruptured 4" Gas lift supply line	2022
44	SHARQ (SABIC)	Failure investigation of pump shaft	2022
45	AIC Steel	Failure investigation of gas pipe in industrial gas network plant	2022
46	SADARA	Failure investigation of rupture disc	2022
		Failure investigation of inspection port material	2023
47	WETICO	Failure investigation of duplex piping	2022
48	METITO	Failure investigation of duplex piping spool	2022
49	ROMCO	Failure investigation of exchanger tubes	2023
50	SCHLUMBURGER	Failure investigation of wash out failure	2023
51	SAMREF	Failure investigation of DMW b/w 42" C/S flange to SS310S 8mm Thk cone	2023
		Failure investigation of exchanger tubes	2023
		Failure investigation of FCC steam line 26in-SL-41-3601-AF	2023
		Failure investigation of LPS piping header crack 36in-SL-99-5490-AF	2023
		Failure investigation of LP BFW piping crack 8in-WB-99-5284-BBX	2023
52	CHENGDA	Failure investigation of 20" flange defects in DEA amine plant piping	2023
		Failure investigation of pitting in SS316L piping	2023
53	NESR	Failure investigation of broken drilling jar part	2023
		Failure investigation of 900 ground sub#VL900007	2023
		Failure investigation of coiled tubing	2023
		Failure investigation of broken drilling jar part valve mandrel housing# #10588201	2023
54	WEATHERFORD	Failure investigation of 2.875 CTD stator	2023
55	HOUSE OF ENERGY	Failure investigation of S31254 8" SCH 10S pipe	2023
56	Oil Services	Failure investigation of pin hole in CS pipe	2023
57	SABTANK	Failure investigation of corroded tank bottom plate	2023
		Failure investigation of forklift shaft	2023
		Failure investigation of impeller	2023
58	RICARDO RAIL LIMITED	Failure investigation of cracked brake disc	2023
59	NAPESCO	Failure investigation of fractured catch housing	2023

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60	PETROKEMMYA (NORTH)	Failure investigation of 34E502 exchanger tube	2023
61	AL KHORAYEF PETROLEUM	Failure investigation of ANANKA 070 (1) and 070 (2) BOLTS	2023
		Failure investigation of SY BMC (Top part & Bottom part) Bolts	2023
62	ARCC	Failure investigation of cracking in 2" Spool	2023

Remaining Life Assessment (RLA) & Condition Assessment Projects

Sr. No.	Client	Details	Year
1	CTCI	Assessment of Metallurgical Degradation in Tanks (68007)	2011
		Assessment of Metallurgical Degradation in Tanks (68008)	
2	Saline Water Conversion Corporation (SWCC) Al-Jubail, Kingdom of Saudi Arabia	Remaining life assessment of Super heater tubes of unit #05 boiler, by Internal oxide scale measurement approach	2014
		RLA study of Boiler Unit-6	
		Life Assessment of Main Steam Common Header Boiler Unit 1,3,4 & 6	
		Life Assessment of Boiler Parts, Phase 1, Unit 2 & Turbine Blade	
3	Axis Inspection	Condition Assessment of 8 elbows, 4 reducers and 2 T-joints	2014
4	CTCI	Condition assessment of Tank TK-5121	2016
		Condition assessment of Tank TK-4445	2016
		Condition assessment of Tank TK-4701	2016
		Condition assessment of Tank TK-7202	2016
		Condition assessment of Tank TK-7608	2016
		Condition assessment of Tank TK-7612	2016
5	CHIYODA ALMANA	Condition assessment of internal liners for bellows	2017
6	IBB-SABIC	Remaining Life Assessment of the Boiler U-601B	2018-
		Remaining Life Assessment of the Boiler X-601B	
		Remaining Life Assessment of the Boiler A-1101BU	2019
		Remaining Life Assessment of the Boiler X-603B	

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7	Saudi Chevron	Remaining life Assessment of super heater tube of F-3301	2019
		Remaining Life Assessment of Heater Tube F-3101 Module #3	2020
		Remaining life assessment of radiant coils	2023
		Condition assessment of gas inlet nozzles	2023
8	Sahara Petrochemical	Remaining life Assessment of Water Tube No. 16 of Furnace Chamber	2019
9	Petrokemya	Remaining life assessment of Fire Steam Tube Boiler LK2M-30	2023
10	Saudi Aramco (Yanbu Refinery)	Remaining Life Assessment of V09-H2 Radiant Heater Tube#14	2020
		Remaining Life Assessment of V14-H1 Radiant Heater Tube #32	2020
		Remaining life assessment of V11-H3 radiant heater tube#20	2020
		Remaining Life Assessment of V11-H2 radiant heater tube#49	2020
		Remaining Life Assessment of V04-H1B Radiant Heater Tube #12	2020
		Remaining Life Assessment of V11-H1 Radiant Heater Tube	2020
		Remaining Life Assessment of V04-H1A Radiant Heater Tube	2020
11	Yansab (SABIC)	Remaining life assessment of HPSSH-1 (Inlet)	2021
		Remaining life assessment of HPSSH-II (Outlet)	2021
		Remaining life assessment of HTC-I (Outlet)	2021
		Remaining life assessment of HTC-II (Inlet)	2021
		Remaining life assessment of HTC-II (Outlet)	2021
12	TASNEE	Remaining life assessment radiant section tube of charge heater	2022
		Condition assessment of pressure transmitter devices	2023
13	IBN ZAHR	Remaining life assessment of boiler 720-B-04 secondary superheater tube	2023
		Condition assessment for denicklification identification in Cu Ni 70/30 exchanger tube	2023
14	SAFCO	Remaining life assessment primary reformer tube	2023

Fitness For Service (FFS) Projects

No.	Client	Details	Year
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1	ADVANCED PETROCHEMICALS COMPANY, KSA	Fitness For Service Assessment Of Powder Ko Drum (3-V-3001)	
		Finite elemental analysis of nozzle N-19 of reactor	2023
2	SAFCO – JUBAIL, KINGDOM OF SAUDI ARABIA (Total: 15 jobs)	Level – 1 Fitness For Service (FFS) Assessment As Per Guidelines of API 579	
3	SAUDI CHEVRON	Fitness for service assessment of tubes of radiant coils and outlet headers F3301 As per API579 ASME FFS1-2007 Part 10 Level-2 assessment	2017
4	CRISTAL-YANBU	Fitness for service assessment of packaged boiler B504-D	
5	TCC-SAFCO	FFS for Equipment 21-C-301	2019
		FFS for Equipment 21-C-302	2019
		FFS for Equipment 21-R-202	2019
		FFS for Equipment 21-V-301	2019
		FFS for Equipment 21-V-304	2019
		FFS for Equipment 21-V-306A	2019
		FFS for Equipment 21-V-306B	2019
		FFS for Equipment 21-V-503	2019
		FFS for Equipment 21-V-701	2019
6	Saudi Chevron	FFS for Lube Oil Tank	2019
7	SAFCO - IBB	Fitness for Service assessment of Reform Gas Waste Heat Boiler A-EA 201 (101C)	2020
8	SINOPEC-SAFCO	FFS of A-1101D Hydrotreater	2019
		FFS of A-2131C Secondary Shift Effluent Economizer	2019
		FFS of A-1162C Mean Lean Solution Cooler	2019
		FFS of A-1165C Mean Rich Lean Solution Exchanger	2019
		FFS of A-3119C Methanator Effluent- BFW Heater	2019
		FFS of A-1116F Feed_Fuel Gas KO Drum KNU	2019

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		FFS of A-3109F Ammonia Refrigerant Receiver KNU RPP	2019
		FFS of A-1101C Reform Gas Waste Heat Boiler	2019
		FFS of Surge Oil Tank	2019
		FFS of (A-2111C) Stripper Condensate Reboiler	2020
		FFS of (A-3120C) Unitized Refrigerant Exchanger	2020
		FFS of (A-4129C) Syn. Gas Compressor Interstage Chiller	2020
		FFS of (A-3130C) Syn Gas 1 st Stage Suction Cooler	2020
		FFS of (A-4175C) syn Gas Compressor Kick back Cooler	2020
		FFS of (A-1102DA) Low Temperature Sheft Converter	2020
		FFS of (A-1160E) H2S Absorber	2020
		FFS of (A-1163E) H2S Stripper	2020
		FFS of (A-1165) H2S Absorber Overhead K.O.Drum	2020
		FFS of (A-2103E) Condensate Stripper	2020
		FFS of (A-2103F) Co2 Absorber K.O. Drum	2020
		FFS of (A-3106F) Ammonia Separator	2020
		FFS of (A-3107F) Ammonia LET Down Tank	2020
		FFS of (A-4104F) Syn Gas Compressor Suction Drum	2020
		FFS of (A-1160F) H2S Stripper K.O Drum	2020
		FFS of (A-210E) CO2 Absorber	2020
		FFS of (A-2113C) Stripper Overhead Condensate Reboiler	2020
9	SASREF (EXPERTISE)	FFS Level-III assessment of storage tank shell deformation as per API 579 Part-8	2023

Field Metallographic Replication / In-situ Replica Projects

No.	Client	Details	Year
1	PetroRabigh	On site replication and evaluation with help of mobile laboratory for more than 400 replicas.	2015, 2020
2	SAUDI KAYAN	Shutdown Job & Emergency requirements	2016, 2017, 2020, 2021, 2022, 2023
3	LABORELEC	PP-11 Shutdown, Marafiq & Shoaiba Power Plant Emergency requirement	2016, 2017, 2021
4	SATORP	Emergency requirement & Major Turnaround-2018	2016, 2017, 2018, 2021, 2022, 2023
5	SAECO	Routine Jobs Replica+ Macro+ Hardness	2016, 2017, 2018, 2019, 2020, 2021, 2023
6	SAUDI ARAMCO-RASTANURA	Shutdown Job	2016, 2017
7	SABIC-IBN ZAHR	Shutdown Job	2016, 2017, 2019, 2021, 2022, 2023
8	SABIC-UNITED	Shutdown Job	2016, 2017, 2020, 2021, 2022, 2023
9	SABIC-SAFCO	Shutdown Job, Emergency requirement	2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
10	Axis Inspection	Emergency requirement for Hadeed, Ibn Sina, Sadaf & PetroRabigh	2016, 2020
11	RGF	Emergency requirement for Shoaiba Power Plant & Alstom	2016
12	NOMAC	Emergency requirement & Shutdown job	2016, 2018, 2023

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13	SABIC-IBN SINA	Shutdown	2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
14	SABIC-PETROKEMYA (NORTH)	Emergency requirement, Shutdown	2016, 2017, 2018, 2021, 2022, 2023
15	TASNEE	Shutdown Job	2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
16	YANSAB	Emergency requirement	2016, 2020, 2021, 2023
17	MAADEN PHOSPHATE	Emergency requirement	2016, 2017, 2018
18	NDTCCS	Emergency requirement for Maaden Phosphate	2016, 2017
19	SABIC-AR RAZI	Emergency Shutdown Job	2016, 2017, 2018, 2019, 2020, 2021, 2023
20	CTCI	Emergency requirement	2016, 2017
21	BAPCO REFINERY BAHRAIN	Shutdown Job	2016, 2017
22	SABIC-SAFCO_IBB	Shutdown Job + Emergency requirements	2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023
23	GPIC-BAHRAIN	Emergency requirements	2017, 2018
24	AL-EZZEL POWER PLANT-BAHRAIN	Emergency requirements	2017
25	SADARA	Emergency requirements	2016, 2017, 2022, 2023
26	TAMIMI	Emergency requirements	2017

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27	QPP (QURRAYAH POWER PLANT)	Emergency requirements	2016, 2018
28	PP11 Riyadh	Emergency requirements	2016, 2017
29	GE	Emergency requirements & Routine jobs	2016, 2017, 2021, 2023
30	KEMYA	Emergency requirements	2016, 2017, 2019, 2020, 2022, 2023
31	SABTANK	Emergency requirements	2016, 2017, 2018, 2023
32	RIYADH REFINERY	Emergency requirements	2017
33	DHURUMA	Emergency requirements	2016, 2017, 2021
34	CRISTAL	Emergency requirements	2016, 2017, 2018, 2019
35	JOMEL	Emergency requirements	2017, 2018, 2023
36	ENGIE	Emergency requirements	2016, 2017, 2021, 2022
37	ADVANCE INSPECTION SERVICES (AIS)	Emergency requirements	2018, 2020, 2021, 2022, 2023
38	SEC- TIHAMA	Emergency requirements	2018, 2019, 2020
39	Al-Khorayef	Routine testing	2018
40	Precision Forging	Micro+Grain size measurement jobs	2018
41	Aminat	Emergency requirements	2018
42	Romco	Emergency requirements	2018, 2019, 2021
43	APPC	Shutdown+Emergency requirements	2017, 2018
44	SABIC-PETROKEMYA (SOUTH)	Shutdown+Emergency requirements	2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023

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45	Bureau Veritas (NATPET)	Shutdown Requirement	2019
46	Zamil PED	Grain Size + Emergency Replica Requirement	2019, 2020, 2021, 2022
47	TUV Rheinland	Emergency Requirement	2019, 2020, 2021, 2023
48	SABIC-SHARQ	Shutdown + Emergency Requirement	2019, 2020, 2022, 2023
49	Yanbu Refinery	Shutdown Requirement + Emergency Requirement	2019, 2020, 2022, 2023
50	Al Bayroni	Emergency Requirement	2019, 2020, 2021
51	ISCOSA	Emergency Requirement	2019, 2020
52	Harris Pye	Emergency Requirement	2019, 2021
53	NEXUS Middle East	Emergency Requirement	2019
54	SABIC Hadeed	Emergency Requirement	2020, 2021, 2022, 2023
55	SWCC	Emergency Requirement	2020
56	Saudi Cement	Emergency Requirement	2020
57	Ibn e Rushd	Emergency Requirement	2020, 2021
58	Luberef	Shutdown Requirement	2019, 2021, 2022
59	Sendan	Shutdown Requirement	2021
60	Hawaiya Gas Plant (SAUDI ARAMCO)	Emergency Requirement	2021
61	HI Engineering	Shutdown requirement	2022
62	OCA GLOBAL	Site based in-situ assessment	2022
63	BABCOCK	HRSB shutdown jobs	2022, 2023
64	KUBOTA	Shutdown Jobs	2022
65	HI Engineering	Shutdown Jobs	2022
66	KNDT	Shutdown Jobs	2022, 2023

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67	ZEECO	On site assessment Jobs	2022
68	GAS METAL TECH	On site assessment Jobs	2022
69	HENKEL	On site assessment Jobs	2022
70	AIC Steel	On site assessment Jobs	2022
71	Expertise	Shutdown Job	2022, 2023
72	Farabi	Shutdown job	2022, 2023
73	DJC	Shutdown job	2022
74	DOOSAN ENERBILITY	Emergency requirements	2023
75	B-TECH Inspection	Routine, Emergency requirements	2023
76	TUV SUD	Emergency requirements	2023
77	ITIS	Emergency requirements	2023
78	SAFRA	Shutdown requirements	2023
79	SIPCHEM	Shutdown requirements	2021, 2023
80	MADARMIT	Emergency requirements	2023