





Corporate Office: "Chennai One" IT SEZ, Tower II 1^{st} Floor, Special Module, East Wing "A" Pallavaram – Thoraipakkam 200ft Road, Thoraipakkam, Chennai – 600 097. India. $T+044-24560145-48 \mid +044-49578687$



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1. LIST OF PROJECTS - SAFETY & RISK MANAGEMENT CONSULTANCY

List of Safety & Risk Management Consultancy Projects Successfully Executed By NAPESCO India are provided below;

1.1. SAFETY & RISK MANAGEMENT

Sl.No	Project Name	Contractor / Company	Scope of the consultancy	Year of Award/Execution
1	Booster Station (BS) – 140	Kuwait Oil Company	QRA, HAZID, HAZOP, SIL Determination, SIL Verification	2014
2	Booster Station (BS) – 150	Kuwait Oil Company	QRA, HAZID, HAZOP, SIL Determination, SIL Verification	2014
3	Installation of Multipoint Smokeless High Pressure Flare at 14 South & East Kuwait Gathering Centers, KOC	Gulf Spic / KOC	QRA, HAZID, HAZOP, SIL Determination, SIL Verification, PHSER 3, 4 and 5	2014
4	KNPC Gulf Spic FGRU unit 49, MAA Refinery	Gulf Spic / KOC	HAZOP	2014
5	OBM Cutting Treatment service using indirect thermal desorption.	SAR / KOC	HAZOP	2014
6	West Quarna - Luke Oil	Worley Parsons / LukOil	SIL (1 st Phase) and SIL (2nd Phase)	2014
7	Construction of New Elevated 11KV Intake Sabriyah -C Substations	KCC / KOC	QRA, PHSER 3, 4 and 5	2015
8	Construction of New Elevated 11KV Intake Raudathain -E Substations	Badermulla / KOC	HAZOP, QRA, PHSER 3, 4 and 5	2015
9	Large Scale Thermal Pilot Project (North)	Kuwait Oil Company	PHSER 5	2015
10	Installation of New Gas Pipelines and Replacement /Rerouting of Existing Gas Pipelines at Burgan (S&EK) – FINESCO	and Replacement F&G Mapping ng of Existing Gas		2015



SI.No	Project Name	Contractor / Company	Scope of the consultancy	Year of Award/Execution
11	Construction of new Export CCC / KOC HAZOP transit pipelines from new BS-171 to AGRP at Mina Al-Ahmadi		HAZOP	2015
12	KIPRC R&D Centre (KIPRC Design and Implementation)			2015
13	New Gas Sweetening Facility (NGSF)	Gas Group contract - KOC	HAZID, HAZOP, PHSER 2, F&G Mapping Study, SIL Assessment and SIL Verification	2015
14	Flow line Interfacing/Interconnection project (LTTF & UNLTTF)	Gas Group contract – KOC	HAZID, HAZOP, QRA, PHSER 2, SIL Assessment and SIL Verification	2015
15	New Security Fence for SEK Oil Fields	KOC SEK	HAZID, PHSER 3, 4 and 5 (ON GOING)	2017
16	Excavation and Transportation of Heavily Oil Contaminated Soil to Landfill in North Kuwait Area	Alghanim / KOC	HSE Plan, HAZID, QRA, PHSER 3 and 4	2015
17	Construction of Civil, Building, Infrastructure, Electrical Instrument Services for Joint Operation in Wafra	Alghanim / JO	HSE Plan	2015
18	Conversion of MCO wet tank to dual tank at GC 27, 28	HEISCO/KOC	HAZID, HAZOP, PHSER 3, 4 and 5	2015
19	Replacement of Damaged Spare Flares of COANDA HP Flare and MF/X LP Flare	Finesco/Gulf Spic/KOC	HAZOP, QRA, F&G Mapping, SIL, PHSER 3 and 4	2015
20	Replacement of HIC affected Non-NACE Separators and Gas Scrubbers at SEK GCs 1, 6, 8 & 11	Gulfspic/KOC	HAZID, HAZOP, QRA, PHSER 3, 4 and 5	2015
21	Effluent Water Treatment and Injection Plant (Dodsal) (EF 1761)	Dodsal/KOC	QRA, FEHA, Smoke Dispersion, RAM, FRA, PHSER 3, 4 and 5	2015
22	FEED for Incinerator at HWTC - MESAIEED	Qatar Petroleum	HAZID, HAZOP, QRA, SAFOP, SIL	2015



Sl.No	Project Name	Contractor / Company	Scope of the consultancy	Year of Award/Execution
23	Re-Routing of Existing 34" Fuel gas pipeline from Burgan to Al- Zour	Al-Khadda	HAZOP, QRA, PHSER 3, 4 and 5	2015
24	Jurassic Production Facility in West Raudathain, East Raudathain and Sabriya	Gas Group contract – KOC	QRA	2015
25	Water KO facility for GC1 and GC2	KOC – SEK	F&G Modelling	2015
26	New Production Building Complex	KOC – SEK	HAZID	2015
27	EF-1962 – Installation of ESDVs & FVs on Brackish water line.	KOC – SEK	QRA, SIL, PHSER	2015
28	EF 1957 – Replacement of old control panels of Desalter feed heater trains in GCs 1, 3, 4, 6, 8, 11, 19, 20 and 21	KOC – SEK	HAZID, PHSER	2015
29	Remote Header Manifold at GC 2, 4 and 7	KOC – SEK	HAZOP	2015
30	DCS upgrade for GC-02 and GC- 11	KOC – SEK	PHSER 2, HAZID Report	2015
31	Installation of ESDVs on HC lines existing/entering EK-I & EK-II GCs (1,2, 9,10,11, 19, 20 &22)	KOC – SEK	SIL, HAZID, HAZOP, PHSER 2	2015
32	DCS Upgrade in EK-I GC's 9, 10, 20 & 22	KOC – SEK	HAZOP, PHSER 2	2015
33	Water Management at GCs 3,4,6,7,8,9,10,11,19,20,21 & 22	кос	Fire water Network Analysis	2015
34	EF 1972-Construction of Competency Development Centre at Magwa area	KOC – SEK	HAZID, PHSER, QRA	2015
35	Improvements to existing ESD system on HC lines existing/entering GCs	KOC – SEK	HAZID, HAZOP, QRA, SIL, PHSER 2	2015



	Project Name	Contractor / Company	Scope of the consultancy	Year of Award/Execution
	(03,04,06,07,08 &21)			
36	Installation of new Desalter train at GC-09, GC-10, GC-19 and GC-21	KOC – SEK HAZID, FRD, QRA, SIL, HAZOP, QRA, F&G Mapping		2015
37	Heavy Oil flow Lines	KOC – Gas	QRA	2015
38	Flowlines for JPF - ER, WR &Sabriya	KOC – Gas	QRA	2015
39	JPF-Sabriya P/L area at North Kuwait	KOC – Gas	QRA	2015
40	Modifications for Segregation of Old Production Train and New Production Train in GC 09 & GC10	KOC – SEK	HAZOP	2015
41	Replacement of Old LP Gas Scrubber in GC-02	KOC – SEK	SIL	2015
42	Desktop SIL & SRS Study For Manifold Header Line For GC-01 & GC-04	KOC – SEK	Desktop SIL & SRS	2015
43	FPSO CYRUS (OFF SHORE), Nigeria	MARTEQ Engineering	QRA, FERA, SGDA, ETRERA, ESSA, F&G Mapping, Thermal Plume, NFHA, Formal Safety Assessment, ALARP&CBA, Emission Study, SCE-PS, SCEI, Need of PFP System, Design safety case	2015
44	New Office Building Phase A	UNETEC / KOC	PHSER 1 and 2, QRA, HAZID	2016
45	Replacement of 12" Crude Transit Line with 16"Line from GC-22 to CMM"	KCC / KOC	HAZID, HAZOP, SIL Assessment, Verification, QRA, PHSER 3, 4 and 5	2016/2017/2018
46	Replacement of Dual tank at GC-04 and Dry tank at GC-21	ArabiEnertec / KOC	SIL, PHSER3,4,5	2016
47	Construction of Security Fence in NK	O&G / KOC	HSE Plan, PHSER 3, 4 and 5	2015



Sl.No	Project Name	Contractor / Company	Scope of the consultancy	Year of Award/Execution
48	Burgan office Phase-3 HSE Studies	KOC – SEK	I, HAZID, QRA, PHSER	2016
49	Lightning Protection Study for all KOC facilities – GCs, BS, Tank Farms	KOC – SEK	HAZID Study, PHSER 2	2016
50	Replacement of 40" HP Gas transmission Pipeline from GCMB to LPG Plant	AL KHADDA / KOC	PHSER 3, 4 and 5	2016
51	42" Fuel gas Tie-ins to MF/SH- 01	ALKHADDA / KOC	HAZOP, QRA, PHSER 3, 4 and 5	2016
52	Installation of New Gas Pipelines and Replacement / Re- Routing of Existing Gas Pipelines at Magwa (SEK)	ent / Re-		2016
53	Replacement of Separator Level ArabiEnertec / KOC PHSER 3, 4 and 5 Control Valves in South East Kuwait GCs		2016	
54	New Gathering Centre, GC-31	Dodsal / KOC	Flare & Vent Study	2016
55	Sulaibiya Brine Pumping facility	Mott Mac Donald / KOC	HAZID, HAZOP, QRA, SIL Verification, PHSER 3, 4 and 5	2016
56	Improvement in Fire Fighting and Security System	ISCO / KOC	HAZID, HAZOP, QRA, PHSER 3, 4 and 5	2016
57	Umm Niqa HOPF	Schlumberger / KOC	HAZOP, SIL Assessment and Verification, PHSER 3, 4, 5 and 6	2016
58	Jurassic Production Facility, Sabriya	Schlumberger / KOC	HAZID,HAZOP, SIL Assessment and Verification, PHSER 3, 4, 5 and 6	2016
59	CPP Manifolds (30 Nos)	KOC Gas Group	FERA, F&G Mapping	2016
60	Jurassic Production Facility, West Raudhatain	SPETCO / KOC	HAZID, HAZOP, QRA, FERA, F&G Mapping, SIL	2016
61	Short Term Measures for Water Management in GC-01 & GC-02	MECC / KOC	HAZID, HAZOP, QRA, SIL, PHSER 3, 4 and 5	2016
62	EPF-50 Upgrade to 210	Gas Group	HAZOP, QRA	2016



Sl.No	Project Name	Contractor / Company	Scope of the consultancy	Year of Award/Execution
	MMSCFD at North Kuwait	contract – KOC		
63	HSE Sour Gas Lines 18 (Nos)	Gas Group contract – KOC	QRA	2016
64	Installation of New LP Lean Fuel Gas Compressors system at BS- 180	Gas Group contract – KOC	HAZID, HAZOP, QRA, PHSER	2016
65	Installation of New Low Pressure Gas Ring Header and Associated Works at Shuaiba Industrial Area	Gas Group contract – KOC	HAZID, HAZOP, QRA, PHSER	2016
66	WJO Gas Flaring Reduction Package –II	Gas Group contract – KOC	HAZID, HAZOP, QRA, PHSER	2016
67	Lower FARS Heavy Oil Development Program	Petrofac / KOC	CHAZOP	2017
68	Quantitative Risk Assessment	CPCL -Manali	QRA	2017
69	Jurassic Production Facility, East Raudhatain	Schlumberger	HAZID, QRA	2017
70	Backup Plan to Supply Crude & Fuel Gas to New Refinery (Al- Zour)	Gas Group contract – KOC	HAZID, HAZOP, QRA, PHSER	2017
71	Construction of new Building for Ahmadi Services Group (EF 1825)	KOC-SEK	HAZID, QRA, PHSER 2	2017
72	Replacement of 42 inch Flare line at GC-03, 04, 06, 07,08	KOC-SEK	HAZID, PHSER 2	2017
73	EF-1995Construction of New Magwa Office Complex	кос	QRA	2017
74	Comprehensive Risk Analysis for Paradip Refinery	IOCL-Paradip	CRA/QRA	2017
75	Replacement of Non-Nace / Hic affected separators at SEK GCS	KOC/MECC	HAZID, HAZOP, QRA, SIL Assessment and verification,	2017



SI.No	Project Name	Contractor / Company	Scope of the consultancy	Year of Award/Execution
			PHSER #3, #4, #5, F&G Mapping	
76	Post Fire Incident Investigation	Indus Towers, New Delhi	Root Cause Analysis	2017
77	Consulting Services SIS		SIL Assessment, SIL Verification, SIS Validation and Training on SIS Life Cycle	2017
78	Fire Station Design Consultancy Services	KNPC – Kuwait/Alghanim	Development of Fire Station Design basis and Internal Arrangement Layouts	2017
79	Water Management at GC-09, 10, 20 and 22 in EK Area (KOC Contract No. 17051666)	KOC/MECC	HAZID, HAZOP, QRA, SIL Assessment, Verification, PHSER #3, #4, #5, 3D F&G Mapping, Fire Water Network Analysis, Firewater Hydraulic calculation for Ring main	2018
80	Booster Station (BS)-180	Enerflex Middle East/KOC	Fire water Hydraulic, Deluge water spray and Foam Coverage study	2017
81	6 Inch Condensate line from BS- 140 to GCMB Project	КОС	HAZOP	2017
82	20" Fuel Gas Pipeline From Bs- 180 To Mf/A In Magwa Area	КОС	HAZID, HAZOP, PHSER - II and QRA	2017
83	Jurassic Production Facility Off Plot – 17051827	ARGT/KOC	F&G Mapping	2017
84	Jurassic Production Facility East Raudhatain	,		2017
85	Heavy Oil long term Testing facility in North Kuwait	GOFSCO/ KOC	HAZID, HAZOP, QRA, SIL Assessment, PHSER #3, #4, #5, 3D F&G Mapping, FERA, EERA, BRA	2017
86- 100	15 No's of KNPC Petrol Filing stations	Pace Engineering/KOC	HAZOP	2017
101	Jurassic Production Facility, East	Schlumberger/KOC	HAZID, QRA, PHSER 3,4&5	2017



Sl.No	Project Name	Contractor / Company	Scope of the consultancy	Year of Award/Execution
102	Water Managementat GC-01 KOC/ MECC HAZID, HAZOP, QRA, S and GC-02 S&EK Area Assessment, PHSER #3		HAZID, HAZOP, QRA, SIL Assessment, PHSER #3, #4, #5, 3D F&G Mapping, Firewater Network Analysis	2017
103	Jurassic Production Facilities 4 & 5 (JPF – 4 & JPF-5) at North Kuwait	КОС	PHSER 1, HAZID, FERA, H2S Zoning study, QRA, BRA, HAZOP Study, SIL Assessment Study, F&G Mapping Study, EERA Study, Hazardous Area Classification Study, PHSER 2, Radiation & Dispersion Studies (ON GOING)	2018
104	Upgrading existing Exporting facilities	KOC/ArabiEnertec	HAZOP, QRA, SIL Assessment, Verification & SRS, PHSER #3, #4, #5	2018
105	JLO Blending Manifold (KOC Contract No. 17052073).	KOC/KCCEC, Kuwait	HAZOP, QRA, SIL Assessment, Verification and SRS, PHSER #3, #4, #5,Gas Dispersion study	2018
106	Water Managementat GC-06, 08, 11 and 19 in S&EK Area (KOC Contract No. 17051672)	KOC/ ISCO	HAZID, HAZOP, QRA, SIL Assessment, PHSER #3, #4, #5, 3D F&G Mapping, Firewater Network Analysis	2018
107	EPF - 50 Gas well Head Improvement	кос	HAZOP, SIL Assessment	2018
108	EF-1995Construction of New Magwa Office Complex	кос	HAZID, PHSER II,	2018
109	Post Fire Incident Investigation	Indus Towers, Trissur	Root Cause Analysis	2018
110	Post Fire Incident Investigation	Indus Towers, Gurgaon	Root Cause Analysis	2018
111	Booster Station(BS) – 160	KOC-Gas Group	F&G Mapping (Detect 3D)	2018
112	NK LP AND RICH GAS NETWORK	KOC-Gas Group	HAZID, HAZOP, QRA, PHSER2	2017/18



Sl.No	Project Name	Contractor / Company	Scope of the consultancy	Year of Award/Execution
	UPGRADE (EGPM 15)			
113	Renovation of Ahamadi Domestic and South East Domestic Fuel Gas Manifolds E,F,V, SE South East Lean HP Gas Network (EGPM 15)	KOC-Gas Group	HAZID, HAZOP, QRA, PHSER2	2017/18
114	Extension of New Security Fence for SEK Oil Fields (Contract No.16052704)	ELEMAN Construction Establishment/KOC	HAZID, PHSER 3,4&5	2018



2. LIST OF PROJECTS - ENVIRONMENTAL CONSULTANCY & AUDITS

List of Environmental Projects Supported By NAPESCO India through National Petroleum Services Company, Kuwait are provided in the Sections below;

2.1. MARINE EIA STUDIES

Sl.No	Project Title	EIA study Duration	Client Name	Status of approval	Year of KEPA Approval
1	EIA for- Azzour South RO Desalination Plant	6 months	MEW	KEPA approved	2011
2	EIA study for AzZour new OCGT plant	4 months	MEW	KEPA Approved in 2014	2012
3	EIA study for Sabiya new OCGT plant	4 months	MEW	KEPA Approved in 2014	2012
4	EIA study for Doha new Reverse Osmosis (RO) plant	6 months	MEW	KEPA Approved (Nov. 2013)	2013
5	EIA study for Combined Cycle Gas Turbines to Upgrade power capacity at Sabiya Power and Water Distillation Plant Site for Future Combined Cycle Gas Turbines	6 months	MEW	KEPA review	2015
6	2D Marine Seismic Data Acquisition and Processing Offshore Kuwait	4 months	ARGAS	KEPA Approved IEIA (January 2014)	2014
7	EIA – Offshore seismic survey project- Phase 1	2 months	WJO	KEPA Approved	2015
8	EIA – Offshore seismic survey project- Phase 2	4 months	WJO	KEPA Approved	2015
9	Construction compliance monitoring for Offshore works of Doha SWRO project	1 Year	Doosan, TML & GDC	On going	2017-2018
10	ESA study for KOC Exploratory wells geophysical and geotechnical investigation	2 months	M/s Horizon	Final stage	2017



2.2. EIA IN ROAD PROJECTS

SI. No	Project Title	EIA study Duration	Client Name	Status of approval
1	Road from KOC gate (G-3) to Subiyah main road	5 weeks	Kuwait Systems	Completed
2	Internal roads-Housing Authority - West Sulaibikhat Area EIA	8 weeks	Housing Authority	Completed

2.3. EIA IN OIL PRODUCTION FACILITY

Sl.No	Project Title	EIA study Duration	Client Name	Status of approval
1	KOC - 50MBOPD EPF Capacity for North Kuwait Jurassic Production	14 weeks	SAFWAN	KEPA Approved
2	KOC - RFP:1531 Lower Fars Pilot Plant Project	12 weeks	Al-Khorayef	KEPA Approved
3	KOC - RFP:1526 120 MBOPD Early Production Facility for Ratqa and Abdali - North Kuwait	16 weeks	Al-Rashed	KEPA Approved
4	New GC-16 in West Kuwait, RFP 1898	11 weeks	Al-Khoreyef	KEPA Approved
5	150MBOPD Jurassic production NK and Molten Sulphur Handling in MAA (IEIA)	10 weeks	Saipem	KEPA approved (IEIA- Feb. 2012)
6	Wafra Steam Flood – EOR	10 weeks	OſM	KEPA approved- 2015
7	Heavy Oil Production Facility at NK- KOC HSE projects	10weeks	KOC-GT	KEPA approved in 2016
8	Final EIA Report- 50 EPF at Raudhatain Oil Field- NK	6 weeks	SPETCO	KEPA approved
9	Construction of GC 29 at North Kuwait	8 weeks	Petrofac international, Sharjah	Approved in 2015
10	Construction of GC 31 at North Kuwait	8 weeks	Dodsal Engineering	Approved in 2015



2.4. ESIA/ESA AND EIA PROJECTS

Sl.No	Project Title	EIA study Duration	Client Name	Status of approval
1	KOC - Installation of New Air Assisted Flare at GCs 3, 6, 8& 19	10 weeks	ISCO	Completed
2	KOC - New Tank Vapor and High Pressure Flares at GC-25	5 weeks	ксс	Completed
3	KOC - EF/1644 Telemetry System for Crude oil Transit Network	8 weeks	Fluor	Completed
4	KOC - Upgrading of LP Gas network	12 weeks	Al-Khadda	Completed
5	KOC - Replacement of 9 Crude Oil Filling Lines	5 weeks	Fluor	Completed
6	KOC - EF/1669-Feed Pipelines for New Refinery	5 weeks	Fluor	Completed
7	KOC - 21 PEIA Projects	14 weeks	кос	Completed
8	Housing Authority - West Sulaibikhat Area EIA	10 weeks	Housing Authority	Completed
9	KOC - EF/1657 - New GC-16 in West Kuwait	5 weeks	Fluor	Completed
10	KOC - EF/1698 NEW SUBSTATION 48 MW IN UMM GUDAIR AREA - WK	5 weeks	Fluor	Completed
11	KOC - 50MBOPD EPF Capacity for North Kuwait Jurassic Production	14 weeks	SAFWAN	KEPA Approved
12	J.O. Waffra - Zarqani-1 Exploratory Well	8 weeks	J.O. Waffra	Completed
13	KOC - Strategic Crude Oil Supply Pipeline from KNPC metering skid to Mina Abdulla refineries	12 weeks	SOS	Completed
14	KOC - Replacement of 9 Crude Oil Filling Lines	8 weeks	Daelim	KEPA Approved
15	KOC - Installation of New Air Assisted Flare Stacks of GC's 17, 27, 28 and BS-170. and Installation of Liquid Separator	12 weeks	Ahmadia	KEPA Approved
16	KOC - New 12"HP Gas pipeline from FM-7 to MAB Fence	8 weeks	Finesco	Completed
17	KOC - Replacement of 12"Dia Fresh and 10" Dia Drain Water Pipeline at South Tank Farm	14 weeks	MECC	Completed
18	KOC - New 24" HP Gas Pipeline to Shuaiba North Power Station	10 weeks	Gulf Spic (Al Khadda)	KEPA approved
19	KOC - Improvement to Header ESD Systems at SK GCs 3, 4, 6, 7, 8, 21	8 weeks	Mushrif	KEPA approved



SI.No	Project Title	EIA study Duration	Client Name	Status of approval
20	KOC - EF/1700 Integrated Security Systems for All KOC Facilities	6 weeks (only PEIA)	Fluor	KOC Approved
21	KOC - 30" HP Gas Transmission Line from BS-140 to Manifold GCMB	8 weeks	UGCC	KEPA Approved
22	KOC - New Effluent Water Transfer Pipelines from GCs 17, 27, and 28 to MWIP and GC-28 EWTS and Tankage Up gradation	8 weeks	UGCC	KEPA Approved
23	MEW/KOC - 20" HFO Pipeline from MAA to Doha West Power Station	10 weeks	HEISCO	KEPA Approved
24	KOC - RFP:1531 Lower Fars Pilot Plant Project	12 weeks	Al-Khorayef	KEPA Approved
25	KOC - RFP:1526 120 MBOPD Early Production Facility for Ratqa and Abdali - North Kuwait	16 weeks	Al-Rashed	KEPA Approved
26	KOC - RFP: 1098 - Construction of New Crude Oil Tank at GC-1	10 weeks	Al- Yaseen/Bridge & Roof India	KEPA approved
27	KOC - RFP: 1642 CIPF Injection System Flow lines to 6 Water Injector Wells - North Kuwait	10 weeks	AGRA	completed
28	Improvement and Modification of Power Distribution System in GC-23, North Kuwait	10 weeks	O&G Engg.Co.	KEPA Approved
29	Replacement of Rotary equipments and pump shelters in GC 17	10 weeks	Al Meer	KEPA Approved
30	EIA for Improvement to Header ESD Systems at GC's -17, 27&28 and Isolation Capabilities a GC's 27&28 in West	10 weeks	Gulf Spic Trading &Cont. Co.	KOC approved
31	EIA for Installation of Gravity Drain System at GC's -17, 27&28 in West Kuwait	12 weeks	Gulf Spic Trading &Cont. Co.	KEPA Approved
32	Upgrading / modification to tankage – Injection pump seal water & drainage system at MWIP - West Kuwait	10 weeks	Al Meer Electrical Services Co.	KEPA Approved
33	Installation of 20" Crude pipeline from GC 7 to TB-1 in Burgan Area	8 weeks	HEISCO	KEPA Approved
34	Construction of New11 KV B3 substation associated with MEW 132kv Burgan C substation and overhead lines in Burgan Area	10 weeks	Fluor	KEPA Approved



Sl.No	Project Title	EIA study Duration	Client Name	Status of approval
35	Replacement of Crude Transit Line from GC 09 to CMM	10 weeks	MECC	KEPA Approved
36	Revamping of solid sulphur handling and ship loading facilities	3 months	Thyssenkruup	KEPA approved
37	New crude transit line from TL3 to Doha PS	10 weeks	Alghanim Intl.	KEPA Approved
38	Replacement of pipelines from GC 23 and GC 25	10 weeks	IMCO Engg. Const. Co.	KEPA approved
39	Polyurethane coating of HP gas pipeline	10 weeks	Combined Group Cont. Co.	KEPA Approved
40	Fire protection system in MAA	8 weeks	Gulf Spic Trad. &Cont. Co.	KEPA Approved
41	Initial EIA for project EF-1760-Installation of FG and Gas oil pipelines from MAA to Azzour and Shuaiba PS	25 days	Fluor	KEPA Approved
42	Initial EIA for project EF-1713-Installation of LSFO and FG pipelines from MAA to Shuaiba and Doha PS	25 days	Fluor	KEPA Approved
43	Replacement of ESDV and AOV at BS 140 and BS 150	10 weeks	Gulf Spic Trad.& Cont. Co.	KEPA Approved
44	Crude Export Line Incoming Group Production Feeders and Pipelines to New GC-16 and New Effluent Water Line to MWIP (West Kuwait) RFP- 1899	10 weeks	Combined Group Cont.Co.	KEPA Approved
45	Replacement of crude transit line in SEK areas. RFP-1871, Contract No 42649	12 weeks	HOT Engg. Const. Co.	KEPA Approved
46	EF-1717, Initial EIA Assessment	12 weeks	Worley Parson	KEPA Approved
47	16" Crude oil Pipeline. RFP 2038, Contract No 43282	12 weeks	Gulf Spic	KEPA Approved
48	Upgrading of MCO at GC-27. RFP 1954,Contract # 43173	12 weeks	Gulf Spic	KEPA Approved
49	Dharif water Injection pilot, RFP 1801, Contract # 42757	12 weeks	Gulf Spic	KEPA review
50	Installation of additional Injection pump at Abdulia pump station	12 weeks	IMCO	KEPA Approved



SI.No	Project Title	EIA study Duration	Client Name	Status of approval
51	Replacement of Existing Oily and Effluent Water Lines with RTRP at GC 23 and GC25	12 weeks	IMCO	KEPA Approved
52	Second Eocene Water Injection Pilot Project. Contract # 41408	14 weeks	Joint Operations	Study Completed
53	Waste Management Services, RFP- 2055	15 weeks	AbarPertroleum Services	KEPA approved
54	Installation of fuel gas & gas oil pipeline from MAA to Azzour&Shuaiba power station, JI-2003	11 weeks	Petrofac	KEPA Approved
55	Effluent Water Injection & Central Sea Water Injection – NK, JI- 2004	11 weeks	Petrofac	KEPA Approved
56	Bulk handling Facilities for Production Chemicals in SEK, WK & NK Areas, RFP 1864	12 weeks	CGC	KOC approved
57	New GC-16 in West Kuwait, RFP 1898	11 weeks	Al-Khoreyef	KEPA Approved
58	150MBOPD Jurassic production NK and Molten Sulphur Handling in MAA (IEIA)	10 weeks	Saipem	KEPA approved (IEIA- Feb. 2012)
59	KNPC Sulphur Handling Project (IEIA)	10 weeks	Saipem	KEPA approved (IEIA- Feb. 2012)
60	MEW- Azzour South RO Desalination Plant	6 months	MEW	KEPA approved
61	Steamflood 2 nd Eocene project -JO	12 weeks	UGC	KEPA approved (Feb. 2012)
62	Construction Of Main Intake(20mw) New Elevated A-27 Substation and Improve SEK Fields Power Distribution Network	12 weeks	Heisco	KEPA Approved (Aug. 2012)
63	Construction of New Lined Common Pit for GC-15 & GC-25 effluent water disposal North Kuwait	12 weeks	Sai General Trading	KEPA Approved
64	Construction Of New Export Transit Line From New Bs 171 To AGRP.	12 weeks	Consolidated Contractors Company	KEPA Approved
65	Umm Al Aish New Area Substation	12 weeks	IMCO	KEPA approved June 2012)
66	FIRE Protection system for KOC Assets in NK	12 weeks	IMCO	KEPA Approved
67	Construction of 4 New 132/11KV Substations in NK, Burgan & Ahmadi	12 weeks	IMCO	KEPA Approved
68	132/11kV overhead transmission lines to feed 4 New Substations in NK, Burgan & Ahmadi	8 weeks	NCC	KEPA Approved



Sl.No	Project Title	EIA study Duration	Client Name	Status of approval
69	Combined Solar and Gas Turbine Power Plant - IEIA	6 weeks	WorleyParson	KEPA Approved (IEIA)
70	Construction of KOCR&D Centre	4 weeks	кос	KEPA Approved (EIA-April 2012)
71	Sewage Treatment Plant a KOC areas	12 weeks	KDC	KEPA Approved
72	New transit Line from Abdali main Point Manifold to AbdaliMid Point Manifold	12 weeks	MECC	KEPA Approved
73	Replacement of existing 16" dia. Eocene Crude supply line from Wafra MGC to Burgan manifold	12 weeks	MECC	KEPA Approved
74	Consultancy Services for Sustainable Economic Environmental development remediation & rehabilitation of existing pits in KOC Fields	2 weeks	AMEC	KEPA Approved
75	Construction of 2 Eocenec Tanks at MGC	6 weeks	Consolidated Contractors Company	Project suspended
76	Construction of New 132/11KV Substations in Ahmadi Township	6 weeks	Al Ahlea Switch gear Co.	KEPA Approved
77	Environmental Study for the Bird Sanctuary area (support study for EIA report for EF/1713)	4 weeks	FLUOR, Kuwait	KEPA Approved (Dec. 2013)
78	Construction of GC-29, GC-30 and GC-31 in North Kuwait.	6 weeks	AMEC	KEPA Approved –IEIA (Dec.2012)
79	Construction of First Potable Water Pipeline Network for West Kuwait Facilities	8 weeks	ALMEER, Kuwait	KEPA Approved (Aug. 2012)
80	Upgrade of Chemical Injection & Monitoring Capabilities At West Kuwait Facilities	8 weeks	ALMEER, Kuwait	KEPA Approved (Aug. 2012)
81	EIA study for AzZour new OCGT plant	4 months	MEW	KEPA Approved in 2014
82	EIA study for Sabiya new OCGT plant	4 months	MEW	KEPA Approved in 2014
83	EIA study for Doha new Reverse Osmosis (RO) plant	6 months	MEW	KEPA Approved (Nov. 2013)
84	Proposed Replacement Of Dual Tank At Gc-04 And Dry Tank At Gc-21	2 months	ARABI ENERTECH K.S.C	KEPA Approved
85	IEIA-Sustainable Economic Environmental development remediation & rehabilitation of	2 MONTHS	AMEC	IEIA- KEPA Approved



Sl.No	Project Title	EIA study Duration	Client Name	Status of approval
	existing pits in KOC Fields			
86	FEIA/EMP for Sustainable Economic Environmental development remediation & rehabilitation of existing pits in KOC SEK Fields	4 months	TERI	KEPA Approved
87	Construction of New 72MW/11KV Substations in NK at Raudhatain-D and Sabriya-B	9 weeks	O & G	KEPA Approved
88	150MBOPD Jurassic production NK and Molten Sulphur Handling in MAA (IEIA)	8 WEEKS	Petrofac	FEIA Study Project On Hold
89	KNPC Sulphur Handling Project (IEIA)	8 WEEKS	Petrofac	FEIA Study Project On Hold
90	Replacement of 16" condensate Line with New 20" Line from GCMB to MAA-02 Manifold	10 WEEKS	КСС	KEPA approved
91	Section II Construction of High Pressure Flow Lines & Associated works for Jurassic wells at NK	8 WEEKS	ARABI ENERTECH K.S.C	KEPA Approved
92	2D Marine Seismic Data Acquisition and Processing Offshore Kuwait	4 months	ARGAS	KEPA Approved (January 2014)
93	Environmental monitoring and compliance reporting for Sustainable Economic Environmental development remediation & rehabilitation of existing pits in KOC SEK Fields	2.5 years	TERI	Completed
94	Installation of Multipoint Smokeless High Pressure (HP) Pit Flares at fourteen (14) Gathering Centers (GCs) in South and East Kuwait field areas	8 WEEKS	Gulf Spic	EIA Report approved by KEPA
95	Construction Of Landfill Facilities For Hydrocarbon Contaminated Soil In South-East Kuwait Area- Environment Rehabilitation Program Under UN Legislation For Indemnification	4 WEEKS	Nassar Al Badha	EIA Report approved by KEPA in November 2014.
96	Road from KOC gate (G-3) to Subiyah main road	5 WEEKS	Kuwait Systems	Report submitted to KOC to complete their HSE requirements
97	Replacement of Separator Level Control Valves in South & East Kuwait	6 weeks	ARABI ENERTECH K.S.C	KEPA approved in 2015



Sl.No	Project Title	EIA study Duration	Client Name	Status of approval
98	Pipeline project from GCMB to MAA-	6 weeks	Al Khadha	EIA Report approved by KEPA in October 2014.
99	KOC On call- KPRIC Substation project	4 weeks	KOC on call	Report submitted to KOC
100	5MW Solar PV project- WK	4 weeks	KOC on call	KEPA approved in 2015
101	COANDA flare project at BS 150 & GC 11	6 weeks	FINESCO	KEPA approved in April 2015
102	EIA study for KNPC-NRP LDA project	10 weeks	AMEC International	KEPA approved in Sep 2014.
103	Replacement of piggable to non-piggable pipeline at SEK	3 weeks	KOC on call	KEPA approved in 2015
104	Replacement of HP/LP and Condensate pipelines at SEK areas	3 weeks	KOC on call	KEPA approved in 2015
105	Construction of gas Sweetening Plant at WK	3 weeks	KOC on call	KEPA approved in June 2015
106	OBM Cutting treatment services using indirect thermal desorption technology	6 Weeks	SAR A.S	KEPA approved in June 2015
107	Construction of GC 29 at North Kuwait	8 weeks	Petrofac international, Sharjah	Approved in 2015
108	Construction of GC 31 at North Kuwait	8 weeks	Dodsal Engineering	Approved in 2015
109	Construction of Ahmadi Township Extension project-	4 weeks	KOC on Call	KEPA approved in 2015
110	Construction of Effluent water treatment plant at NK	6 weeks	Dodsal Engineering	Approved in 2015
111	Construction of 11kV intake substation at NK Sabariya C	6 weeks	KCCEC	KEPA approved in June 2015
112	Construction of new security fence in KOC NK area.	6 weeks	Kuwait systems	On hold
113	Replacement of gas pipelines in SEK area	6 weeks	FINESCO	Approved in 2015
114	Construction of 11kV intake substation at NK Rawdatain	4 weeks	Al Mulla	KEPA approved in June 2015
115	Enhanced Oil Recovery- EIA study For Wafra Joint Operations	9 months	Wafra Joint Operations	Approved in 2015
116	Enhanced Oil Recovery- EIA scoping study	2 months	Wafra Joint	KEPA approved



Sl.No	Project Title	EIA study Duration	Client Name	Status of approval
			Operations	
117	Environmental study for "WAFRA sub-center flare systems & gas facilities upgrade project"	6 weeks	Wafra Joint Operations	KEPA approved in 2015
118	"Installation of new flow lines, export & fuel gas pipelines for Jurassic Production Facility (Off plot works) in NK"	6 weeks	кос	Approved in 2016
119	Combined Cycle Gas Turbines to Upgrade power capacity at Sabiya Power and Water Distillation Plant Site for Future Combined Cycle Gas Turbines	8 weeks	MEW	Approved in 2016
120	Excavation And Transportation Of Heavily Oil Contaminated Soil To Landfill In North Kuwait Area	10 weeks	FAHAD ALGHANIM	KEPA Approved in 2016
121	The Conversion Of MCO Tanks To Dual Tanks At West Kuwait GCs, GC 27 & GC 28	6 weeks	HEISCO	KEPA approved
122	Re-Routing Of Existing 34" Fuel Gas Pipeline From Burgan To Al-Zour	6 weeks	AL_KHADA	Approved in 2016
123	Jurassic Production Facility	8 weeks	KOC-GT	KEPA approved-2016
124	Environmental Assessment study for Modification of Flare system at SC's in Wafra JO (FE-150,FE-118 and MP993)	8 weeks	WJO-SOP	KEPA approved-2016
125	Installation Of ESDVS & FVS On Brackish Water Lines Of Old Desalter Trains At S&Ek GC's (EF-1962)	6 weeks	KOC- GP	KEPA approved -2016
126	EMP for construction of landfill facilities hydrocarbon contaminated soil for SEK	2 weeks	NBTC	KEPA approved-2015



Sl.No	Project Title	EIA study Duration	Client Name	Status of approval
127	EIA – Offshore seismic survey project	3 weeks	WJO	KEPA approved in 2016
128	Wafra Steam Flood – EOR	10 weeks	WJO	KEPA approved- 2015
129	EIA study for installation of ESD's at KNPC AGRP pipeline facility	6 weeks	CCC	KEPA approved in 2016
130	Heavy Oil Production Facility at NK- KOC HSE projects	6 weeks	KOC-GT	KEPA approved in 2016
131	Installation of new desalter trains at GC 9,10 19 and 21- EF-1975	6 weeks	KOC-GP	KEPA approved in 2016
132	Improvements to existing ESD systems on HC lines exiting/entering SK GC'S (03, 04, 06, 07, 08 & 21)- EF-1973	6 weeks	KOC-GP	KEPA approved in 2016
133	Competency Development Center (CDC) Project- EF-1972	6 weeks	KOC-GP	KEPA approved in 2017
134	Installation of ESDVs on HC lines exiting/entering EK-I & EK-II (GCs 1, 2, 9, 10, 11, 19, 20 &22)- EF-1964	6 weeks	KOC-GP	KEPA approved in 2016
135	EIA – Offshore seismic survey project (Phase II)	6 weeks	WJO	KEPA approved in 2016
136	Construction of new export transit pipelines from new BS- 171 to AGRP at MAA.	6 weeks	ССС	KEPA approved in 2016



Sl.No	Project Title	EIA study Duration	Client Name	Status of approval
137	Replacement of 12" crude transit line with new 16" line from GC-22 TO CMM"	6 weeks	KCCEC	KEPA approved in 2016
138	Construction of security fence at KOC Asset areas in NK	6 weeks	O&G	KEPA approved in 2016
139	Fuel gas tie-ins to feed 42 inch HP lean gas line to MF/X AND MF/SH-01	6 weeks	AL_KHADA	KEPA approved in 2016
140	Replacement of Non-Nace / Hic affected separators at SEK GCS	6 weeks	MECC	Approved in 2016
141	Water Management At GCs 1 & 2 In South East Kuwait	8 weeks	MECC	Approved in 2017
142	Improvement in fire fighting and security system at SEK manifolds	6 weeks	ISCO	Approved in 2017
143	Improvement in fire fighting and security system at SEK manifolds	6 weeks	ISCO	KOC approved
144	Initial Environmental Assessment Report	6 weeks	MOI	completed
145	Final EIA Report- 50 EPF at Raudhatain Oil Field- NK	6 weeks	SPETCO	KEPA approved
146	WJO gas flaring reduction project - II: Installation of two rental compressor packages with associated tie-ins and pipeline works	6 weeks	кос	KEPA Approved
147	Installation of new low pressure gas ring header and associated works at Shuaiba industrial area	6 weeks	КОС	KEPA approved in 2017



SI.No	Project Title	EIA study Duration	Client Name	Status of approval
148	Installation of New LP Lean Gas Compressors System and Associated works at Booster Station, BS-180	6 weeks	КОС	KEPA Approved
149	Extension of new Security Fence for South & East Kuwait Oil Fields	6 weeks	кос	completed
150	Waste management services within South & East Kuwait and Export & Marine operational areas of the Company	12 weeks	NAPESCO	On Going
151	Replacement of 42" flare line at GC-03, 04, 06, 07 & 08	6 weeks	КОС	completed
152	Hessah Al Mubarak Residential District, Kuwait city	6 weeks	Al Mutawir	On going
153	Backup Plan To Supply Crude And Fuel Gas To New Refinery (Al-Zour)	4 weeks	кос	KEPA Approved
154- 169	New KNPC Petrol stations- 15 nos	8 weeks	M/s PACE	On going
170	Waste management services within West Kuwait operational areas of the Company	12 weeks	M/s Al Jazeera	Scoping report submitted
171	Waste management services within North Kuwait operational areas of the Company	12 weeks	M/s Al Jazeera	Scoping report submitted
172	Water Management At GC's 6, 8, 11 & 19 in S&EK area	6 weeks	ISCO	Report submitted
173	Water Management At GC's 9,10,20 & 22 in S&EK area	6 weeks	MECC	completed



SI.No	Project Title	EIA study Duration	Client Name	Status of approval
174	HSE studies and technical report for KOC Waste management project	10 weeks	NAPESCO	completed
175	GC-32 -New Gathering Centre for South East Kuwait	EIA 4 months	Petrofac Int.	completed
176	Offshore Wells Exploratory Survey In The Southern Kuwait	2 Months	M/s Horizon int.	completed
177	Ground water monitoring for Rawdatain&Sabriya fields	2 Months	MEW, Kuwait	completed
178	Construction of three 11kV substation – KOC SEK area	1 month	KCCEC	On going
179	New Magwa Office complex	2 months	кос	completed
180	LP gas network at NK	2 months	КОС	On going
181	Renovation HP gas net-work at Ahmadi	2 months	КОС	On going
181	Jurassic Facility at NK- No.4	2 months	КОС	On going
182	Jurassic Facility at NK- No.5	2 months	кос	On going



2.5. ENVIRONMENTAL COMPLIANCE AND AUDIT

Sl.No	Project Title	Study Duration	Client Name	Status of approval
	Marine sampling and compliance	EMP		
1	monitoring- Doha intake pipeline	1 year	TML	On going
	Environmental compliance monitoring &	EMP		
2	auditing- Mutla City project (MPW)	1 year	KOLIN's	On going
	Environmental compliance monitoring &			
3	auditing- KNPC-CFP project	EMP- 6 months	JGSK	On going
	Environmental compliance monitoring &			
4	auditing- On shore- Doha SWRO project	1 year	GDC	On going
	Emission compliance and CEMS-validation		M/s Al Ghanim	
5	project	2 months	International	completed



2.6. EIA IN INDUSTRIAL AREAS

SI.No	Project Title	Study Duration	Client Name	Status of approval
1	Al Sharhan Industrial EIA	4 weeks	Al Sharhan	KEPA APPROVED
2	SaadMurshad Industrial EIA	4 weeks	SaadMurshad	KEPA APPROVED
3	Al-Muhalab- Industrial EIA-Phase 1	4 weeks	Al Muhalab	KEPA Approved
4	Al-Muhalab- Industrial EIA-Phase 2 (2013-2014)	4 weeks	Al Muhalab	KEPA Approved
5	KFC – American – Industrial EIA	4 weeks	KFC	KEPA APPROVED
6	National Gypsum– Industrial EIA	4 weeks	National Gypsum	KEPA APPROVED
7	Kuwait National Lube oil	4 weeks	KNLOC	KEPA Approved
8	Al Julaiah petroleum Services Co.	4 weeks	Al Julaiah	KEPA APPROVED
9	Environmental Evaluation study for Petrol station (M/s Soor Fuel Marketing Co.)	12 weeks	M/s Soor	KEPA APPROVED
10	Environmental Evaluation study for Petrol station no 125 (M/s Soor Fuel Marketing Co.)	2 weeks	M/s Soor	KEPA APPROVED



3. LIST OF PROJECTS - FIELD ENGINEERING & SPECIAL SERVICES

List of Field Engineering (Laser Scanning 3D Modelling)/ Energy Management/ Leak Detection & Repair/ Project Management) Projects Successfully Executed By NAPESCO India is provided in the Table below;

SI.No	Project Name	Contractor/Company	Description	Year of Award
1	Engineering & Leak Detection and repair Services	KNPC	3 years	2016
2	Wafra Joint Operations SOP & Risk management Contract	Joint Operations - Saudi Aramco Chevron &KGOC,Wafra	SOP	2014
3	PIC LEED Audit	PIC	LEED Audit	2014
4	Energy Management – Pilot Study of GCs, BS, Tank Farm	KOC- HSE Corporate	Energy Management	2016
5-35	CPP Manifolds (30 Nos)	KOC Gas Group	HAC	2016
36	Hazardous Area Classification at Haldia Refinery	IOCL	HAC	2017
37	3D Modelling and scanning at Mahul Refinery	HPCL	3D Modelling and Scanning (On going)	2017



4. LIST OF PROJECTS - ENGINEERING SERVICES AND LONG TERM CONTRACTS

List of Engineering Services and Long Term Contracts Supported By NAPESCO India through National Petroleum Services Company, Kuwait is provided in the Table below;

Sl.No	Project Name	Company	Project Duration
1	Modification of Existing SOP and development of EOM for 14 Sub-centers at JO, Wafra	Joint Operations-Wafra	1
2	Re-rating and Adding "R" stamp for Gas Scrubber	Joint Operations-Wafra	42 days
3	Design Engineering Services for PSV Vent and Sizing's	Joint Operations-Wafra	40 days
4	Modification of Existing SOP and development of EOM for SC-16	Joint Operations-Wafra	63 days
5	Updating & Modification of Drawings for Sub-centers with necessary survey, data collection and engineering resources	Joint Operations-Wafra	57 days
6	Design Engineering services to evaluate the required changes to the existing internal as well as skid piping layout to increase the current capacity from 120,000 BLPD to 150,000 BLPD.	Joint Operations-Wafra	37 days
7	Drilling & Workover Cementing & Associated Services	Kuwait Oil Company	3 years
8	Coiled tubing and associated services	Kuwait Oil Company	2 years
9	Engineering, Cementing & Associated Services for Drilling & workover	Kuwait Oil Company	5 Years
10	Engineering, Coil Tubing Nitrogen & Associated Services	Kuwait Oil Company	4 years
11	Engineering, Cementing & Associated Services for Drilling & workover	Joint Operations	5 years
12	Engineering, Coil Tubing Nitrogen & Associated Services	Joint Operations	4 years
13	HSE CONSULTANCY SERVICES	Kuwait Oil Company	5 years
14	Engineering Services & Supply Of Skid Mounted Test Separators	Joint Operations	2 years
15	Engineering Services & Supply Of Baf Valves Assembly	Joint Operations	2 years
16	Engineering Services & Supply Of valves and Actuators	MEW	1 year
17	Engineering & Free Oil Recovery Treatment Services For Soil Remediation	GS Engineering	2 years
18	Engineering & Free Oil Recovery From Free Phase Oil &	The Energy & Resources	2 years



Sl.No	Project Name	Company	Project Duration
	Oily Sludge	Institute	
19	Engineering, Halon Recycling & storage of cylinders	Hanwah Engineering	2 years
20	Engineering & Annual Testing Services of Fire detection	HEISCO	1 year
21	Design Engineering & Consultancy EIA Services for DOHA RO Desalination Plant	MEW	1 year
22	Design Engineering & Consultancy EIA Services for Al- Zour Plant	MEW	1 year
23	Design Engineering & Consultancy EIA Services for Sabiya Plant	MEW	1 year
24	Engineering Services for Geo-technical Investigation Works	Kuwait Oil Company	3 years
25	Design Engineering Services for Modification of SOP's & 14 Subcenters	Joint Operations	1 year
26	Engineering & Integrated Oil Spill services	KNPC	3 years
27	Engineering & Environmental Services	KNPC	3 years
28	Engineering, Hire of Earth Moving Equipment's & Personnel	Joint Operations	3 years



