

Kuwait Oil Company Five Years Capital Projects

Italian Delegation

Facility Projects

Project Title & Brief Scope

Expected Contract Signature

1. Expansion of Effluent Water Disposal Plant (EWDP)-I / II for Injection Maintenance Project

2022/23

Brief Scope Description:

- The Effluent Water Disposal Plant (EWDP)-I/II expansion serves to increase the effluent water injection capabilities at South and East Kuwait areas to be able to handle the increased quantity of produced water.
- This includes the capacity enhancement of EWDP-I from 150 MBWPD to 300 MBWPD and EWDP-II from 350 MBWPD to 700 MBWPD capacity for injection purposes.

2. Installation of (SGC-II) Separation Gathering Center –East Kuwait-II Area

2022/23

Brief Scope Description:

- The project is to install a new Separation Gathering Center (SGC II) along with its upstream and downstream network systems for EK II area, with a liquid handling capacity of 600 MBLPD.

3. Separation Facilities in NK SA/BA (Sabriyah / Bahra) Area (GCs-23 & 24), Injection Facilities at GC-31 and New NK EW (Effluent Water) Injection Networks

2023/24

Brief Scope Description:

- The project is for the installation of bulk separation facilities at GCs 23, 24 in SA area, each having processing capacity of 300 MBLPD.
- Project contracting strategy will be through a Build-Own-Operate (BOO) basis.

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<p><u>4. Separation Facility at GC-25 and Water Injection Facilities at GCs-29 & 30</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">The project scope consists of mainly:<ol style="list-style-type: none">A separation facility with a 300 MBLPD capacity and effluent water treatment facility with a 240 MBWPD capacity at GC 25 with a centralized laboratory.Centralized water injection facility at GC 30 with a 500 MBWPD capacity.Modified pipeline connections.Project contracting strategy will be through a Build-Own-Operate (BOO) basis.	2023/24
<p><u>5. Kuwait International Petroleum Research Centre (KIPRC)</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">This facility will be a landmark project, the first in Kuwait and will encompass laboratories and testing facilities, office space for research and support staff, support areas (library, meeting rooms, auditorium, cafeteria, etc.), mosque, convention center and utilities & storage areas representing gross floor areas of 76,540 m². The project will focus on research in upstream business and will be spread over an approved site of 250,000 m² in Ahmadi Area.	2023/24
<p><u>6. Jurassic Light Oil (JLO) Export Facilities and Upgrading of Existing Export Network</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">The objective of the project is to install six new crude oil storage tanks (618 MBBLS operating capacity each) and associated infrastructure facilities.	2023/24

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<p><u>7. Installation of Separation Gathering Center (SGC)-I & Water Injection Plant (WIP)-I in EK-I Area</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">The project is to maintain production and handle surplus produced water, a new combined Separation Gathering Centre I (SGC-I) and Water Injection Plant I (WIP-I) is to be constructed. The SGC-I shall have a total liquid handling capacity of 600 MBLPD. The WIP-I shall have an injection capacity of 750 MBWPD.	2023/24
<p><u>8. Installation of Separation Gathering Center (SGC)-III & Water Injection Plant (WIP)-III in SK Area</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">The project scope consists of a Separation Gathering Centre (SGC-III) and Water Injection Plant (WIP-III) with associated gathering manifolds (RHMs) and HP injection manifolds for primary oil, water and gas separation at SGC-III and water treatment/ injection from WIP-III in SK area.	2023/24
<p><u>9. Construction of Integrated Multi Well Pads in North Kuwait (Phase-I)</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">The scope of work includes flow lines from the wellheads to the production, test and injection headers. Along with trunk lines from these headers up to their respective tie-in points at the battery limit of the well pad, for test & production trunk lines; The injection trunk lines under the project scope will extend up to the manifold of the future EW injection rings.	2024/25

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10. Power Provision for Artificial Lift Pumps Phase-II and Remote Header Manifolds at SEK (Construction of Ring Main Units (RMU) (For 1700 wells and 29 Remote Header Manifolds (RHMs))

2024/25

Brief Scope Description:

- The main objective of the project is to construct 854 nos. of Ring Main Unit (RMU) substations and their associated power distribution network for the power provision of 1700 nos. of artificial lift wells (existing/future) .
- The project also includes power provision for 29 nos. of remote header manifolds (RHM) (existing/under construction) using RMUs and their associated power distribution network/equipment in S&EK Area.

11. Umm Gudair (UG) Water Injection Plant at WK

2024/25

Brief Scope Description:

- The project is for the construction of a new water injection plant at Umm Gudair field (UG). The scope shall include, but not be limited to: design, fabrication, supply, inspection, testing and assistance in pre-commissioning, commissioning of the UG injection plant.
- This project is to install two standalone separate water injection facilities at West Kuwait.
- Water from Zubair source water (Aquifer) wells will be utilized in the plant as feed water for injection.

12. New Kabd Water Center

2024/25

Brief Scope Description:

- The project includes:
 - a) A pumping station for 300,000 BWPD at 300 psi.
 - b) Storage of treated water to protect the pump & insure the stability of water supply.
 - c) A new water pipeline from Kabd to Abdulliyah Pump House (APH) and a new pipeline from APH to the South Tank Farm.
 - d) Segregation of wells' water and new treated water at Abdulliyah Pump House.

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<p><u>13. Installation of Water Injection Plant (WIP)-IV in SK Area</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">The project comprises of a Water Injection Plant (WIP- IV) along with a treatment facility and associated HP injection manifolds for treated water injection.	2024/25
<p><u>14. NK - 2025/26 - RA - EOR Polymer - Surface Facilities</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">The Raudhatain (RA) Enhanced Oil Recovery (EOR) project aims to mature implementation of 60 MBPD polymer injection (30 tons of polymer per day) in North Kuwait Conventional Oil Fields, for the appropriate reservoir segments in Raudhatain Upper Burgan (RAUB) and Raudhatain Mauddud (RAMA).	2025/26
<p><u>15. Enhancement of Booster Stations, BS-140 & BS-150 Facilities</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">This project shall enhance the existing Booster Stations, BS-140 and BS-150 in S&EK area, to increase their availability and to comply with HSSE standards.	2025/26

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<p><u>16. Fuel Supply System to Nuwaiseeb Power Station</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">• This is a pipeline project aiming to provide fuel supply to the new Nuwaiseeb Power Station (NPS) from the Al Zour area.• The new NPS is a gas turbine power station; it will be constructed by the Ministry of Electricity and Water (MEW). It will be built in two phases, with a total production capacity of 7200 MW. The objective of this project is to provide a robust and reliable fuel supply system for the continuous operation of the new power station.	2025/26
<p><u>17. Heat Recovery Steam Generation Facilities (HRSG) & Associated Works</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">• The project scope consists of constructing a cogeneration system containing of gas turbines and heat recovery steam generation (HRSG) facilities, with associated work to generate 220 MBSPD.• The cogen. facility will generate 600MW of electricity, which will be coordinated and utilized by MEW.	2025/26
<p><u>18. Construction of Elevated Control Buildings and Integrated Control and Safety System (ICSS) Implementation for S&EK GCs and Effluent Water Disposal Plant (EWDP) 1 & 2</u></p> <p>Brief Scope Description:</p> <ul style="list-style-type: none">• The intent of this project is to construct new elevated control buildings and ICSS (Integrated Control & Safety System) implementation in South & East Kuwait Gathering Centers and EWDP 1 & 2.• The project proposes to construct 15 new Elevated Control Buildings with new ICSS to replace the existing.	2026/27

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19. Drilling of approx. 2260 Wells (Vertical , Horizontal , Deviated , high and low angle) types in all KOC Asset Areas

Brief Scope Description

- KOC Capital Projects scope includes drilling, completion, connecting and equipping the wells with artificial lift accessories. KOC development & exploration drilling projects takes place in all Kuwait assets including South& East Kuwait, North Kuwait/ Heavy Oil and West Kuwait distributed among all Kuwait fields and reservoirs.
- KOC is planning to drill an amount of 2260 Wells in the coming 5 years with different well objectives including Producers, Injectors, Multilateral, Disposal, SIP,...etc. In addition, planned well types (trajectories) in the drilling capital projects contain vertical, horizontal, deviated, high and low angle.

Activities will be executed during the coming 5 Years starting from 2023-2024

Thank You

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