Abu Dhabi Oil Refining Co. (TAKREER)



We Refine Right



Zero Fuel Oil Production

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Senior Vice President – Ruwais Refinery (East) VCMStudy.ir **CONTENTS**









TAKREER REFINERY OVERVIEW

TAKREER'S REFINING CAPACITY

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JOURNEY TOWARDS EXCELLENCE



TAKREER JOURNEY TOWARDS EXCELLENCE



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TAKREER'S REFINING CAPACITY









BOTTOM OF THE BARREL UPGRADATION

BOTTOM OF THE BARREL STRATEGY – HEART OF REFINERY & PETROCHEMICAL INTEGRATION



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Base Oil Unit



BLOCK FLOW DIAGRAM OF BASE OIL UNITS



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BLOCK FLOW DIAGRAM OF RFCC UNITS





BLOCK FLOW DIAGRAM OF CBDC UNITS







STATE OF ART PROCESSES AND SCALE

RUWAIS REFINERY EXPANSION HAS STATE OF THE ART TECHNOLOGIES

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BASE OIL UNIT	Latest technology minimizing CAPEX & OPEX, improve catalyst life, quality base oil, higher Viscosity Index, low pour point, higher yields, producing Grp. II and III base oil stocks
RFCC	World's Largest unique Petroriser to boost Propylene Yield
SLURRY HYDROTREATER	First Licensed Unit in the world
CARBON BLACK	Produces N-220 (UV Grade) & N-115 (Semi Conductive grade) carbon black
DELAYED COKER & CALCINER	Converts low value VR from RR-E and Slurry Oil to High Value Anode Grade Calcined coke
PROPANE DEHYDROGENATION	Converts Propane from RRE, RRW, GASCO, BOROUGE to Polymer Grade Propylene
ARDS (POCP)	12 reactors to de-sulphurize Atmospheric Residue from Upper Zakum crude and feed to RFCC



CONCLUSION





Ruwais Refinery expansion project has helped ADNOC achieve its Strategic Objectives through:

- Value Maximization and improve profitability:
 - Reduction of Fuel Oil production
 - Production of quality feedstock for petrochemicals, Lube Oil & Coke
- Achieve improved performance & efficiency through optimal use of assets and natural resources – re-routing of heavier residues to upgrading units and processing of relatively distress crude oil in future
- Enhance technical knowhow of work force through use of state of art process & technology
- Contribute to Nation's Development



Thank You