

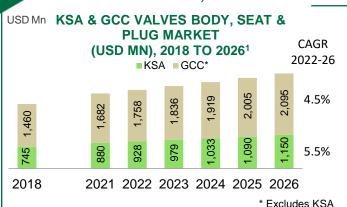
Machinery & Equipment

Valve Body, Seat, Stem And Plug

OPPORTUNITY DESCRIPTION: Enhancing in-country local value addition for valves, through the manufacturing of critical valve components locally



MARKET SIZE, USD



INVESTMENT HIGHLIGHTS

- The proposed portfolio of components would be additions for a casting and forging facility setup in the KSA
- Currently, valve OEMs in KSA focus only on assembly, testing and repairs. Body, seat and stem are main components that account for 50-55% of the total cost of a valve, but currently sourced from foundries in China & India
- Expected Investment size of USD#: 50 to 55 Mn
- Plant capacity#: 15,000 to 18,000 MT annually
- Job Creation#*: 450 to 480

VALUE PROPOSITION

- ~ 80% of Saudi's valves imports are from High-Cost Countries such as USA and many from Europe²; this presents a strong case for import substitution where a locally developed value chain for valves can compete with best-in-class facilities globally
- **Export potential** Setting up in KSA allows access to trade routes that account for 12% of world trade
- Infrastructure Special economic zones and Industrial townships provide world class infrastructure and competitive access to utilities

RAW MATERIALS

KSA plans to invest in increasing chemical industry output, targeting a capacity of 147MT by 2027 at 3% CAGR³

KEY DEMAND DRIVERS

- More than 60 water projects, worth SAR 35 Bn (USD 9.33 Bn) are planned, that will make KSA the largest water desalination market in the world. In addition, plans are in progress to develop 147 SSTPs with 14.925 kms of wastewater collection networks⁴
- Capacity expansion across water desalination, wastewater treatment, crude extraction, refining and petrochemicals will drive demand for valves and its components

- Iron & Steel and its alloys such as carbon steel and stainless steel
- **Bronze**
- **Brass**
- Nickel alloys
- Titanium alloys
- Nickel aluminum bronze

GLOBAL TRENDS

MARKET OVERVIEW

- 3D printing of valve body and valve components this is contributing towards optimization and customization of valves and valve components for customer specific needs across different valve types and end use applications
- 3D printing lends itself towards faster manufacturing times. quicker time to market, and towards decentralized manufacturing as well



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SUPPLY

SCALABILITY AND LOCALIZATION

Grade:

Low Med

Medium



- The manufacturing of these components in KSA will not just significantly increase the localization of the valve value chain, but will also contribute towards foundries, providing additional revenue streams that are linked to high growth segments in the country.
- These components can also be exported to other countries in the region that are attempting to increase assembly in their individual geographies but lack the critical mass to setup a casting/ forging facility. Valve OEM's can hence utilize this facility to facilitate local assembly plans in other countries in the region, while reducing transportation costs

IMPORT DEPENDENCY

- An estimated 75-77% of the KSA demand for valves is met through imports of finished products while the remaining 23-25% is catered by local assemblers.⁵
- 80% of the finished products are imported from High-Cost countries⁶
- Existing local assemblies also rely heavily on imports for castings and are constrained on localization

ENABLING FACTORS

ENABLERS & INCENTIVES

- Customs duties exemption on imported machinery, equipment, raw materials and spare parts utilized for industrial purpose
- Access to local content initiatives and programs at demand centers
- HRDF covers monthly salaries of up to 30% for Saudi employees (extra 10% for females) for 2 years
- Expat worker levy waived off for industrial manufacturers
- Tax rebates on exports, raw material imports, and 50% tax credit on Saudi national worker's payroll & training costs for 10 years
- 2-year grace period for the repayment of loans
- Unprecedented access to a diversified value chain especially raw materials (steel, aluminum, polymers, and industrial minerals)

Electricity tariffs for industrial players

VALUE CHAIN

Upstream

- I. Raw material extraction (Mining)
- Mineral beneficiation & processing
- 3. Valve components research, engineering & design

Midstream

- . Casting & forging
- 2. Machining
- 3. Valve component manufacturing body, seat, stem & plug
- I. Sand blasting

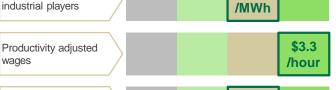
Downstream

- 1. Testing & inspection
- 2. Packaging

Applications*

- 1. Oil & gas
- 2. Petrochemicals
- 3. Water & Wastewater
- 4. Power

Factor Ranking amongst regional peers



Top

25%

COST OF DOING BUSINESS IN KSA







Top

75%

50

Source: 5Team Analysis; 6UN Comtrade

وزارة الاستثمار

KEY STAKEHOLDERS











Logos sourced from entity website

3

\$48

3.2

2.7

DEFINITIONS

#	SCORECARD SECTION	DEFINITIONS
1	Market size	Size of market in value/volume in KSA and/or Region (MENA/GCC) covering future projections based on available estimates from published /government sources
2	Business drivers	A select number of factors that will influence future demand for the related product/service
3	Investment highlights	An overview of key financial metrics summarizing the investment opportunity along with the expected return based on the suggested investment size
4	Value proposition	Summary of key differentiators that position KSA as a strategic choice over other regional/global peers
5	Market readiness	An overview of KSA market structure, market maturity and level of participation by local and global players
6	Global trends	Latest business developments within the sector/product category
7	Scalability and localization	Ease of scaling the business across the value chain or into new adjacent products or geographies that would maximize the opportunity's investment returns and the ability and potential to locally manufacture the product and its components
8	Import dependency	An overview of the countries from which Saudi Arabia is importing the product and their value/volume and share in total imports
9	Value chain analysis	The process or activities that would potentially need to be carried out to deliver the underlying product or service
10	Key stakeholders	Government institutions, organizations, and/or authorities that participate or influence the market for the underlying product/service
11	Enablers	Factors that enable investment in the underlying opportunity
12	Cost of doing business in KSA	Key factors that position KSA as a competitive destination for investment in the region. Productivity adjusted wages do not include cost of \$1.23/hour towards annual recurring charges including work permit, resident identity (iqama) and health insurance



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