Stators INVESTMENT OPPORTUNITY

Machinery & Equipment



OPPORTUNITY DESCRIPTION: Increasing in-country local value addition for motors, through the manufacturing of stators



KEY DEMAND DRIVERS

Stators

 Industrial machinery accounts for ~38% of the demand for motors in the country driven by sectors such as chemicals, water & wastewater and oil & gas

Machinery & Equipment

- 2 high growth segments Power and Industrial are the largest end user segments for motors (60% share), with pumps being the biggest use case with ~50% share²
- Motors form a critical component for pumps. The market for pumps in KSA is expected to grow at 3% CAGR driven by strong investments in desalination and wastewater treatment projects, creating a strong demand for motors and its components such as stators.

Source: ¹Team Analysis of published strategy documents, reports from SWCC & IKTVA publication, independent market reports, UN Comtrade data, General Authority of Statistics data and industry interactions;²NIDC report on motors. [#]Expert interviews (assumptions), financial statements of peer companies, team analysis

RAW MATERIALS

- High Grade Silicon Steel
- High Purity Copper Wire
- Insulation Paper
- Resins

GLOBAL TRENDS

- The focus globally is on improving efficiency and performance by reducing core losses. Material considerations are playing a key role here
- Soft Magnetic Composite (SMC) stators have witnessed a significant reduction in core losses and their powder origins/ configurations allow for creation of more complex geometries

Note: This opportunity is for a component that is manufactured with a range of other components in a facility. No facility is expected to be constructed for manufacturing this component exclusively. Hence, the insights on capacity and investment are indicative - these would vary based on the decision an investor takes on the mix of components to manufacture. Stator in this deck refer to application across motors. Opportunity potential is defined basis current import dependency – High refers to >80%, medium >50 to 80% and low <=50%. *Job Creation covers direct and indirect job. CAGR – Compound Annual Growth Rate, OEM - Original Equipment Manufacturer, HCC – High Cost Countries, MEA –Middle East & Africa, USD – United States Dollar and Mn – Million.

Current Opportunity life Cycle Stage: Mature

25%

75%

25%

50%

Machinery & Equipment Stators

 SCALABILITY AND LOCALIZATING Grade: Low Localization can be enhanced by a automated line for manufacturing/stators that integrates all critical propaper insertion, coil winding, coil in forming and shaping Further localization of the stator more process can be achieved upstream on silicon steel manufacturing and operations to produce the laminate VALUE CHAIN 	Medium High establishing an assembly of occesses like insertion, coil 90% of the motors are currently - with more than 60% of the implication of t	 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
Upstream Upstream 1. Raw material extraction (Mining) 2. Mineral beneficiation & processing – electrical steel, copper		Applications* Applications Applications Se inspection g 1. Water & Wastewater 2. Oil & gas 3. Petrochemicals & Chemicals We chemical Logistics Performance Index (1-5)
فزارة الاستثمار Ministry of Investment	وزارة الصناعية والتروة الصناعي ورارة الصناعي والتروة المعدنية والتروة والتروة المعدنية والتروة والتروة المعدنية والتروة والتروة المعدنية والتروة المعدنية والتروة المعدنية والتروة المعدنية والتروة والتروة المعدنية والتروة والتروة المعدنية والتروة والتروة المعدنية والتروة والت	Construction Costs (Indexed to US, % 0 is cheapest) 2.7 Construction Costs (Indexed to US, % 0 is cheapest) Ease of getting credit (0-100) 50 Scalability & Localization Grade is defined as high – if the set up can

CRGO – Cold Rolled Grain Oriented. Scalability & Localization Grade is defined as high – if the set up can support localization of multiple product categories, medium – if multiple products within a category can be localized and low – if it supports localization of a single product only. *Only key applications are highlighted



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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