



Ghani Global Group

# GHANI CHEMICAL INDUSTRIES LIMITED

Manufacturers of Medical / Industrial Gases & Chemicals

No. GCIL/Corp/PSX-IM

March 25, 2025

**The General Manager**

Pakistan Stock Exchange Limited  
Stock Exchange Building  
Stock Exchange Road  
**Karachi.**

**Subject:** INFORMATION MEMORANDUM OF GHANI CHEMWORLD LIMITED  
(WHOLLY OWNED SUBSIDIARY OF GHANI CHEMICAL INDUSTRIES LIMITED)

Dear Sir,

In continuation to our letter No. GCIL/Corp/PSX-BM-1, dated March 17, 2025, we are pleased to enclose Information Memorandum of Ghani ChemWorld Limited (GCWL) to be listed at PSX by allotment of ordinary shares of GCWL to the shareholders of GCIL with the SWAP ratio 1:2 (50 shares of GCWL against every 100 shares of GCIL) under the Demerger/Merger Scheme approved by the Honourable Lahore High Court, Lahore vide its order dated 20-02-2025.

You may please inform the TRE Certificate Holders of the Exchange accordingly.

Thanking you

**Ghani Chemical Industries Limited**

**FARZAND ALI**

Company Secretary

**Ecls:** As stated above.

- CC:** 1. The Executive Director, Supervision Department, SECP, Islamabad.  
2. Central Depository Company of Pakistan Limited, Karachi.  
3. National Clearing Company of Pakistan Limited, Karachi.

**Corporate Office:**

10-N, Model Town Ext. Lahore - 54000, Pakistan.  
UAN: 111-Ghani1, Ph: +92-42-35161424-5,

**Lahore Plants:**

52-Km, Multan Road,  
Phool Nagar Bypass, Distt. Kasur.

**Karachi Plants:**

A-53, Chemical Area,  
Eastern Industrial Zone,  
D.I. Khan, Model Town, Karachi-75000

**Hattar Plants:**

Plot No. 7-24, Zone-B,  
Hattar Special Economic Zone,  
District Lahore



Ghani Global Group

# Information Memorandum



## Ghani ChemWorld Limited

Faith... Experience... Innovation... Growth...

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# Corporate Information

## BOARD OF DIRECTORS

Masroor Ahmad Khan Non Executive Director  
(Chairman)

Atique Ahmad Khan Executive Director  
(Chief Executive Officer)

Hafiz Farooq Ahmad Non Executive Director

Rabia Atique Non Executive Director

Saira Farooq Non Executive Director

Mehmood Ahmad Independent Director

Hafiz Imran Lateef Independent Director

## COMPANY SECRETARY

Farzand Ali

## CHIEF FINANCIAL OFFICER

Asim Mehmud

## BOARD COMMITTEES

### Audit & Risk Management Committee

Mehmood Ahmad  
(Chairman)

Hafiz Farooq Ahmad

Rabia Atique

### HR&R and Compensation Committee

Hafiz Imran Lateef  
(Chairman)

Saira Farooq

Atique Ahmad Khan

Hafiz Farooq Ahmad

## BANKERS

Albaraka Bank Pakistan Limited

Soneri Bank Limited

## EXTERNAL AUDITORS

Ilyas Saeed & Co.

Chartered Accountants

## LEGAL ADVISOR

Asif Saeed, Advocate

## REGISTERED/CORPORATE OFFICE

10-N, Model Town Ext, Lahore.

UAN: 111 GHANI 1 (442-641)

Fax: (092) 042-35160393

E-mail: [info.gcw@ghaniglobal.com](mailto:info.gcw@ghaniglobal.com)

Website: [www.ghaniglobal.com](http://www.ghaniglobal.com)

## MANUFACTURING PLANT

Plot No. 13-24, Zone-B  
Hattar Special Economic Zone,  
Distt. Haripur, KPK.

## SHARE REGISTRAR

Corplink (Private) Limited

Wings Arcade, 1-K Commercial,

Model Town, Lahore-Pakistan.

Tell: 042-35916714

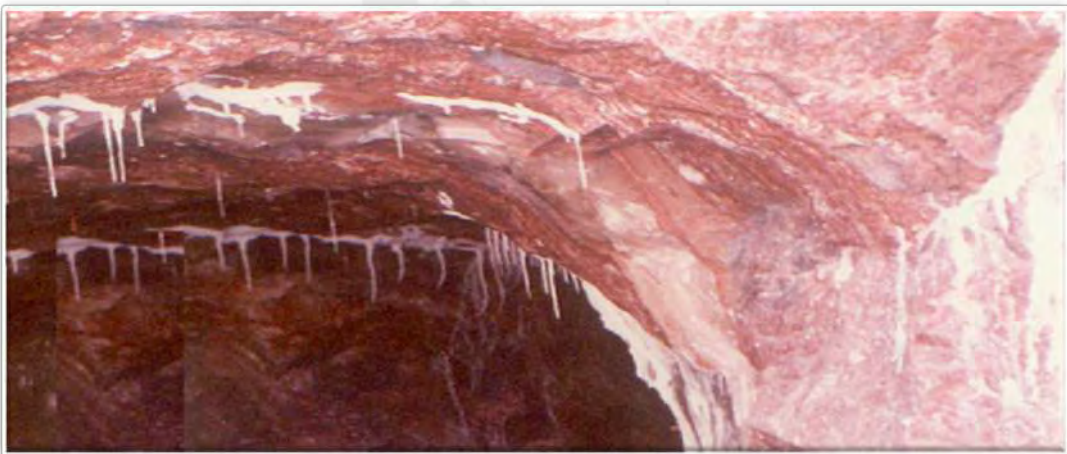
# Group History

Ghani Global Group enjoys over decades of successful entrepreneurial history. (Late) Muhammad Ahmad (father of present sponsors) one of the founders of Ghani Group commenced its business journey by establishing Ahmad Brothers and Company during 1967 and obtained Silica Sand leases. Silica sand quarries are in Qamar Mashani, Distt. Mianwali.

The group has a rich history of around six decades in diversified sectors involving Silica Sand, Rock Salt & Coal Mining, Textiles, Glass, Industrial & Medical Gases, Chemicals, Construction, Food and Trading. The group comprises many private, public and publicly listed companies.

Names of other listed Companies of the Group are as under:

- Ghani Global Holdings Limited (GGL), listed at PSX since January 2010
- Ghani Global Glass Limited (GGGL), listed at PSX since December 2014
- Ghani Chemical Industries Limited (GCIL), listed at PSX since November 2022



# About the Directors

The Company Directors are experienced and qualified personalities.



## About the Directors

Mr. Masroor Ahmad Khan, Chairman  
Graduate from Punjab University

33 years experience on numerous senior Management Positions. Also certified Director under Code of Corporate Governance.

## Directorship in other Companies

- Ghani Global Holdings Limited
- Ghani Chemical Industries Limited
- Killowat Labs Technologies Limited
- Ghani Global Foods (Private) Limited
- Ghani Engineering (Private) Limited
- Ghani Gases (Private) Limited
- Ghani Industrial Complex (Private) Limited
- Ghani Power (Private) Limited
- Ghani Logistics (Private) Limited
- Air Ghani (Private) Limited
- A One Batteries (Private) Limited
- Kaya Projects (Private) Limited

Mr. Atique Ahmad Khan, CEO  
Qualified Mechanical and Electrical Engineer

31 years Experience in industrial sectors at higher management positions. Also certified Director under Code of Corporate Governance.

- Ghani Global Holdings Limited
- Ghani Global Glass Limited
- Ghani Chemical Industries Limited
- Killowat Labs Technologies Limited
- Ghani Global Foods (Private) Limited
- Ghani Engineering (Private) Limited
- Ghani Gases (Private) Limited
- Ghani Industrial Complex (Private) Limited
- Ghani Power (Private) Limited
- Ghani Logistics (Private) Limited
- Air Ghani (Private) Limited
- A One Batteries (Private) Limited
- Kaya Projects (Private) Limited

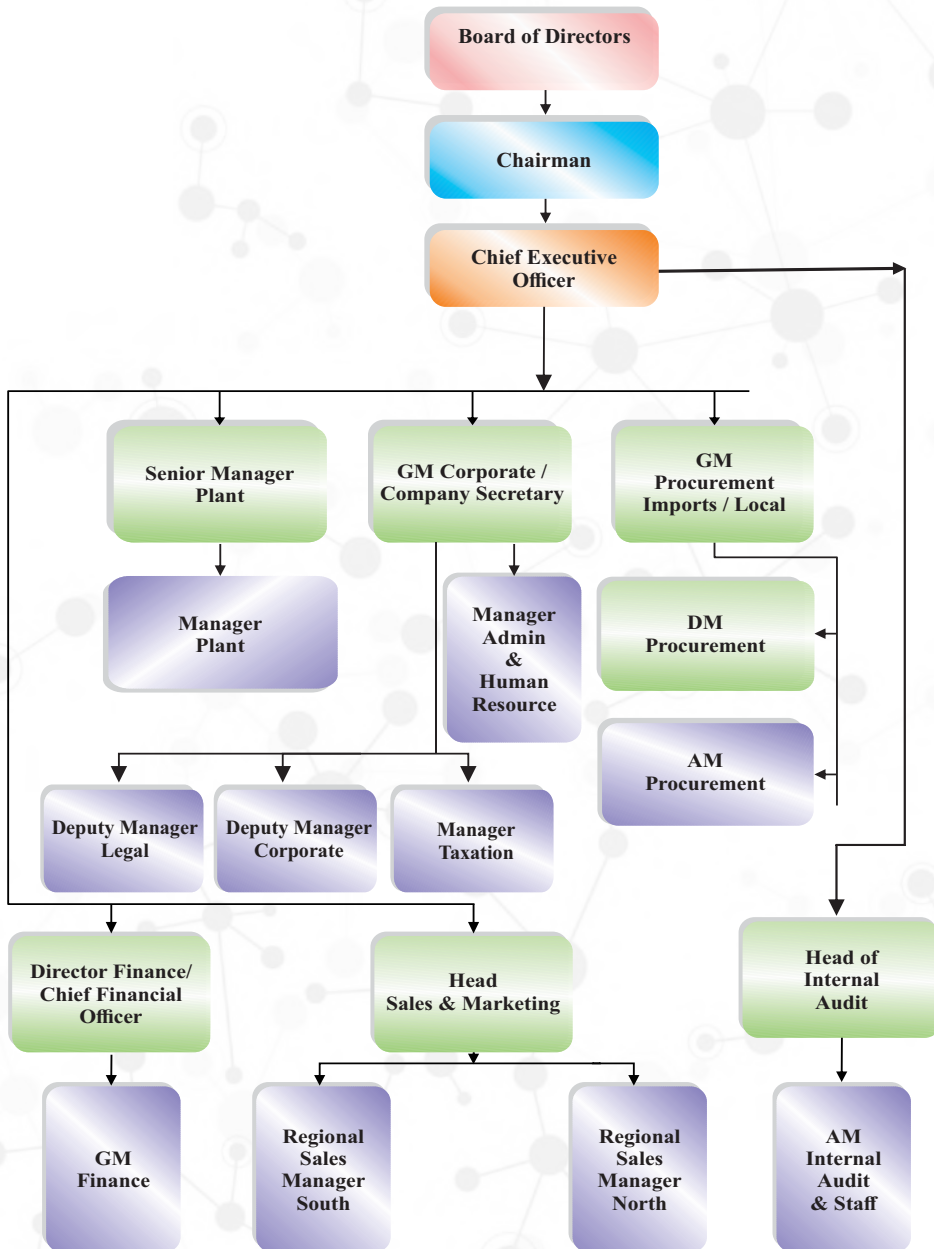
About the Directors	Directorship in other Companies
<p>Hafiz Farooq Ahmad, Director Engineer Graduate from the University of Illinois, Chicago, USA</p> <p>21 Years experience in industrial sector. Privilege of holding a patent which is registered in USA. Also certified Director under Code of Corporate Governance.</p>	<ul style="list-style-type: none"> <li>- Ghani Global Glass Limited</li> <li>- Ghani Chemical Industries Limited</li> <li>- Killowat Labs Technologies Limited</li> <li>- Ghani Global Foods (Private) Limited</li> <li>- Ghani Engineering (Private) Limited</li> <li>- Ghani Gases (Private) Limited</li> <li>- Ghani Industrial Complex (Private) Limited</li> <li>- Ghani Power (Private) Limited</li> <li>- Ghani Logistics (Private) Limited</li> <li>- Air Ghani (Private) Limited</li> </ul>
<p>Mrs. Rabia Atique, Director B.A from Lahore College for Women</p> <p>She holds directorship in listed &amp; Private Companies more than 10 years. Also certified Director under Code of Corporate Governance.</p>	<ul style="list-style-type: none"> <li>- Ghani Chemical Industries Limited</li> <li>- Ghani Global Foods (Private) Limited</li> <li>- Ghani Engineering (Private) Limited</li> </ul>
<p>Mrs. Saira Farooq, Director Raison Arts/Interior Designing</p> <p>She holds directorship in listed &amp; Private Companies more than 10 years. Also certified Director under Code of Corporate Governance.</p>	<ul style="list-style-type: none"> <li>- Ghani Global Holdings Limited</li> <li>- Ghani Global Foods (Private) Limited</li> <li>- Ghani Engineering (Private) Limited</li> </ul>
<p>Mr. Mehmood Ahmad, Independent Director M.Phil. &amp; Ph.D. in Islamic Banking &amp; Fianance</p> <p>18 years of Islamic Finance &amp; Technology Implementation experience &amp; 9 years of experience as a member of Shariah Board. Also certified Director under Code of Corporate Governance.</p>	<ul style="list-style-type: none"> <li>- Ghani Global Holdings Limited</li> </ul>
<p>Hafiz Imran Lateef, Independent Director Bachelors from Punjab University &amp; MBA from Riphah International University</p> <p>30 years of experience in Textile Sector. Also certified Director under Code of Corporate Governance.</p>	<ul style="list-style-type: none"> <li>- Ghani Chemical Industries Limited</li> <li>- Texlynx (Private) Limited</li> </ul>

# Key Management

About the Management	Education	Experience
Mr. Asim Mahmud Director Finance/Gourp CFO	FCA	26 years rich experience in Accounts & Finance of listed companies.
Mr. Farzand Ali Group GM Corporate / Company Secretary	C.A Finalist Fellow Member Institute of Corporate Secretaries	35 years rich experience of Finance & Corporate matters of mainly Textile, Automobile, Glass & Chemical Industries.
Mr. Bilal Butt GM Sales & Marketing	B.Sc Mechanical Engineering MBA Marketing	Having 16 years of experience in the field of sale & marketing of chemical sector.
Mr. Sibtul Hassan Gilani GM Procurement	Master of Business Administration	20 Years experience in Pharma, Electronic, Gases & Glass Industries.
Hafiz Muhammad Kifayat Manager Plant	B.Sc Chemical Engineering	14 years in Manufacturing Sector.
Mr. Farhan Abid Manager Sales & Marketing	B.Sc Honor in Business & Information Technology	10 Years experience in Marketing & Business Management.



# Organization Chart



# Vision

Ghani ChemWorld is committed to quality, service, value and honesty with dedication to provide the very best products and to serve the national community at large. Our organization believes in faith, experience, innovation and growth, and will strive to strengthen all in our employees, customers and business peers.



# Mission

We strive to achieve market leadership through technological edge, distinguished by quality and customer satisfaction, and emphasis on employees' welfare and ensure adequate return to shareholders. We further wish to contribute to the development of economy and country through harmonized endeavor.



# Core Values

01

Sharia  
Compliance

Customer  
Satisfaction

02

03

Excellence

SHEQ

04

05

Professionalism

Integrity

06

**CORE VALUES**

# Demerger/Merger Scheme

The Honorable Lahore High Court, vide its order dated February 20, 2025 in Civil Original No. 65259 of 2024, has approved the Scheme of Compromises, Arrangement and Reconstruction ("The Scheme") under Section 279 to 283 and 285 of the Companies Act, 2017 for the transfer of complete business and undertaking of "Calcium Carbide Project" of Ghani Chemical Industries Limited with and into Ghani ChemWorld Limited. Besides, the Scheme of Arrangement also envisages transfer of designated assets of Ghani Products (Private) Limited with and into Ghani Chemical Industries Limited and distribution of shares of Ghani Chemical Industries Limited held by Ghani Products (Private) Limited to the shareholders of Ghani Products (Private) Limited and issuance of additional shares of Ghani Chemical Industries Limited to Ghani ChemWorld Limited.

1. The authorized capital and the issued capital of the companies will stand changed as follows:

## Authorized Capital

Company	Type of Share	Par Value Rs./share	Authorized Capital in Rs. 000	
			Before Scheme	After Scheme
GPL	Ordinary Shares	10.00	50,010	To be Dissolved
GCIL	Ordinary Shares	10.00	8,000,000	6,000,000
GCIL	Class B Shares	10.00	500,000	-
GCWL	Ordinary Shares	10.00	1,000	2,510,000
GCWL	Partially Redeemable Shares	100.00	-	41,010
			<b>8,551,010</b>	<b>8,551,010</b>

## Issued Capital

Company	Type of Share	Par/Nominal Value Rs./share	Issued Capital in Rs. 000	
			Before Scheme	After Scheme
GPL	Ordinary Shares	10.00	300	To be Cancelled
GCIL	Ordinary Shares	10.00	5,001,880	5,704,519
GCIL	Class B Shares	10.00	-	-
GCWL	Ordinary Shares	10.00	500	2,501,440
GCWL	Partially Redeemable Shares	100.00	-	-
			<b>5,002,680</b>	<b>8,205,959</b>

2. The Authorized Share Capital of GCWL shall be as follows (after the payment of requisite share registration fee to the SECP):

Revised Share Capital	Rs. 000	Nos.	Rs. 000	Nos.	Rs. 000	Nos.
	Under Scheme		Additional		Total Impact	
Ordinary Shares	2,510,000	251,000,000	90,000	9,000,000	2,600,000	260,000,000
Partially Redeemable Shares	41,010	410,100	958,990	9,589,900	1,000,000	10,000,000

3. The pattern of shareholding of GCWL, before and after the Scheme, will be as under:

	GCWL	GCWL
	Before Scheme	After Scheme
Ghani Chemical Industries Limited	49,993	49,993
Ghani Global Holdings Limited	-	139,879,150
Directors, Chief Executive Officer and their Spouse(s) and Children	7	46,786,150
General Public/Others	-	63,428,657
	50,000	250,143,950

4. 70,000,000 ordinary shares of GCIL shall be issued to GCWL. Share capital of GCIL shall be as follows:

Ordinary Shares of the Company before Impact of the Scheme	Nos.	500,187,971
Additional ordinary shares to be Issued to the shareholders of GPL	Nos.	263,960
Additional ordinary shares to be Issued to GCWL	Nos.	70,000,000
Ordinary Shares of the Company after Impact of the Scheme	Nos.	570,451,931

5. Free Float of Shares

Free Float of Shares of GCWL shall be provided once final list of shareholding is extracted after entitlement date.

6. The Statement of Financial Position showing the Scheme Effect as Sanction Date is attached herewith showing Net Assets transferred and impact of the Scheme as on Sanction Date:

## The Statement of Financial Position showing the Scheme Effect as Sanction Date

	Consolidated		Calcium Carbonate Project		Revised		Initial		Expenditure		GWL		GPI		GCI		GCVL		
	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	February 20, 2025	
	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	Rs. 000	
<b>Assets</b>																			
<b>Non-current assets</b>																			
Plant, plant and equipment	11,340,344	2,270,271	9,070,073	-	9,070,073	-	-	-	(2,270,271)	2,270,271	(4,540,542)	-	-	-	-	9,070,073	-	2,270,271	
Right-of-use assets	377,055	-	377,055	-	377,055	-	-	-	-	-	-	-	-	-	-	377,055	-	377,055	
Intangible assets	1,479	-	1,479	-	1,479	-	-	-	-	-	-	-	-	-	-	1,479	-	1,479	
Long term investments	30,275	-	30,275	-	30,275	-	56	56	-	-	-	-	-	-	-	30,275	-	30,275	
Long term deposits	66,616	-	66,616	-	66,616	-	-	-	-	-	-	-	-	-	-	66,616	-	66,616	
	11,975,669	2,270,271	9,704,729	-	9,704,729	-	414,607	414,607	-	-	-	-	-	-	-	9,704,729	-	3,845,786	
<b>Current assets</b>																			
Stores, spares and loose tools	535,011	188,222	346,789	-	346,789	-	-	-	(188,222)	188,222	-	-	-	-	-	346,789	-	188,222	
Stock-in-trade	89,541	309,620	399,161	-	399,161	-	-	-	(309,620)	309,620	-	-	-	-	-	399,161	-	309,620	
Trade debtors	2,174,465	2,109,915	4,284,380	-	4,284,380	-	56	56	(2,109,915)	2,174,465	-	-	-	-	-	4,284,380	-	2,174,465	
Debtors and advances	1,366,213	16,779	1,382,992	-	1,382,992	-	-	-	(16,779)	1,366,213	-	-	-	-	-	1,382,992	-	1,366,213	
Deposits, impairment to said debtors- receivables	895,213	200,711	1,095,924	-	1,095,924	-	-	-	(200,711)	895,213	-	-	-	-	-	1,095,924	-	895,213	
Taxation due from Government	121,340	-	121,340	-	121,340	-	-	-	-	-	-	-	-	-	-	121,340	-	121,340	
Prepaid tax fees	1,570	-	1,570	-	1,570	-	-	-	-	-	-	-	-	-	-	1,570	-	1,570	
Advance income tax	316,249	100,100	416,349	-	416,349	-	730	730	(100,100)	316,249	-	-	-	-	-	416,349	-	316,249	
Short term investments	100,000	-	100,000	-	100,000	-	-	-	(100,000)	100,000	-	-	-	-	-	100,000	-	100,000	
Cash and bank balances	370,533	-	370,533	-	370,533	-	247	247	(2,522)	370,533	-	-	-	-	-	370,533	-	247	
	6,677,645	1,155,922	5,521,723	266	5,521,723	266	811	811	(3,823,351)	4,862,159	-	-	-	-	-	5,521,723	-	1,155,923	
<b>Total assets</b>	18,653,314	3,426,193	15,227,121	266	15,227,121	266	417,919	417,919	(3,823,351)	4,862,159	-	-	-	-	-	15,227,121	-	4,862,161	
<b>Liabilities</b>																			
<b>Equity and liabilities</b>																			
<b>Share capital and reserves</b>																			
Share capital	5,000,000	-	5,000,000	-	5,000,000	-	500	500	-	-	-	-	-	-	-	5,000,000	-	5,000,000	
Share premium	167,211	-	167,211	-	167,211	-	-	-	-	-	-	-	-	-	-	167,211	-	167,211	
Revaluation surplus on freehold and leasehold land	735,087	14,250	749,337	-	749,337	-	-	-	(14,250)	735,087	-	-	-	-	-	749,337	-	735,087	
Merge reserve (Goodwill)	1,242,746	-	1,242,746	-	1,242,746	-	-	-	(1,242,746)	1,242,746	-	-	-	-	-	1,242,746	-	1,242,746	
(Unappropriated profit)	3,680,295	-	3,680,295	-	3,680,295	-	(237)	(237)	(667,078)	3,680,295	-	-	-	-	-	3,680,295	-	3,680,295	
Loan from sponsors	-	14,850	-	14,850	-	14,850	263	263	-	-	-	-	-	-	-	-	-	263	
	10,845,618	14,850	10,770,648	263	10,770,648	263	417,450	417,450	-	-	-	-	-	-	-	10,770,648	-	3,044,813	
<b>Non-current liabilities</b>																			
Long term Finance	1,421,101	-	1,421,101	-	1,421,101	-	-	-	-	-	-	-	-	-	-	1,421,101	-	1,421,101	
Redeemable capital-stakes	800,000	-	800,000	-	800,000	-	-	-	(800,000)	800,000	-	-	-	-	-	800,000	-	800,000	
Long term security deposits	78,876	-	78,876	-	78,876	-	-	-	-	-	-	-	-	-	-	78,876	-	78,876	
Liase liabilities	5,647	-	5,647	-	5,647	-	-	-	-	-	-	-	-	-	-	5,647	-	5,647	
Deferred liabilities	974,174	-	974,174	-	974,174	-	-	-	-	-	-	-	-	-	-	974,174	-	974,174	
	3,279,798	800,000	2,479,798	-	2,479,798	-	-	-	(800,000)	3,279,798	-	-	-	-	-	2,479,798	-	3,279,798	
<b>Current liabilities</b>																			
Trade and other payables	534,129	304,187	838,316	3	838,316	3	356	356	(204,421)	204,421	-	-	-	-	-	838,316	-	204,421	
Contract liabilities- advances from customers	232,460	-	232,460	-	232,460	-	-	-	-	-	-	-	-	-	-	232,460	-	232,460	
Accrued profit	253,414	13,651	267,065	-	267,065	-	-	-	(13,651)	253,414	-	-	-	-	-	267,065	-	253,414	
Unclaimed dividend	491	-	491	-	491	-	-	-	-	-	-	-	-	-	-	491	-	491	
Short term borrowing	2,517,111	-	2,517,111	-	2,517,111	-	-	-	-	-	-	-	-	-	-	2,517,111	-	2,517,111	
Current portion of non-current liabilities	475,214	-	475,214	-	475,214	-	-	-	-	-	-	-	-	-	-	475,214	-	475,214	
Provision for tax fees	967	-	967	-	967	-	63	63	-	-	-	-	-	-	-	967	-	967	
Provision for tax fees	514,076	-	514,076	-	514,076	-	63	63	(63)	514,076	-	-	-	-	-	514,076	-	514,076	
Taxation	514,076	-	514,076	-	514,076	-	63	63	-	-	-	-	-	-	-	514,076	-	514,076	
Inter-division (Receivable)/Payable	4,537,602	3,501,683	2,035,919	3	2,035,919	3	429	429	-	-	-	-	-	-	-	4,537,602	-	217,481	
	7,007,700	3,401,683	4,506,017	3	4,506,017	3	429	429	-	-	-	-	-	-	-	7,007,700	-	3,401,681	
<b>Total liabilities</b>	18,653,314	3,426,193	15,227,121	266	15,227,121	266	417,919	417,919	(3,823,351)	4,862,159	-	-	-	-	-	15,227,121	-	4,862,161	

# About Company

Ghani ChemWorld Limited (GCWL/ the Company) was incorporated as public limited company on July 31, 2024 (CUIN 0265009) under the Companies Act, 2017 as wholly owned subsidiary of Ghani Chemical Industries Limited (GCIL).

The principal line of business of the Company is to manufacture, produce, refine, process, formulate, acquire, convert, sell, distribute, buy, sell, import, export or otherwise deal various chemical and allied products.

Main purpose of formation of the Company was to transfer of Calcium Carbide Project (the Project) from GCIL to GCWL under the Demerger/Merger Scheme approved by the Honourable Lahore High Court, Lahore on 20-02-2025 in Civil Original No. 65259 of 2024. Under the Scheme, all the concessions, licenses, incentives, tax holidays related to the Calcium Carbide Project is being transferred (without effecting GCIL as a Residual) to GCWL.

The project spreads over land areas of 13.34 Acres and is situated in Zone B of Hattar Special Economic Zone, District Haripur. It is at final stage of Commissioning under the supervision of European and Chinese teams of professionals.

Ghani Global Group is engaged in trading business of Calcium Carbide for more than 1 decade. Project of GCWL would be the first of its kind in Pakistan and will help to increase existing market share of the Company from 40% to 90%-100%. This will result not only import substitution but will also open the doors for earning foreign exchange for the country.

After taking Demerger/Merger Scheme affects:

Authorized Capital of the Company is Rs. 3,600,000,000/- divided into 260,000,000 ordinary shares of Rs. 10/- each and 10,000,000 partially redeemable shares of Rs. 100/- each (with par/nominal value divided into redeemable portions of Rs. 90/- per share and irredeemable portion of Rs. 10/- per share).

Paid up capital of the Company is Rs. 2,501,440,000/- divided into 250,144,000 ordinary shares of Rs. 10/- each.



# The Project

The project spreads over on an area of 13.34 Acres in Hattar Special Economic Zone, District Haripur. The construction area is 100,000 sqft that includes Production, Storages, Administration and Parking sites etc.

Raw material includes Lime Stone (which is plenty available in the Country), Coke, Electrodes etc. Total Capacity of the Plant is 25,000 Tons Per Annum. It is expected that plant will start its production from April 2025.

The Environmental Protection Agency, Government of Khyber Pakhtunkhwa, has accorded approval for setup of this Project, at Hattar Economic Zone, District Haripur. In addition to above, Ministry of Energy (Petroleum Division), Department of Explosives has also accorded approval for storage of Calcium Carbide under the Carbide of Calcium Rules, 1937.

Calcium Carbide, also known as calcium acetylide, is a chemical compound used in the production of polyvinyl chloride (PVC) and various other chemicals. Currently we are importing and trading in calcium carbide for the last many years and this manufacturing facility will not only an import substitute by meeting the entire demand of the Pakistani market but will also open the doors to earn foreign exchange by exporting to Afghanistan, the Middle East, SARC and other countries. Calcium carbide is used in the production of acetylene gas, which is a fuel used in welding and melting and metal cutting. It is also used in the production of other chemicals, including calcium cyanimide (for agriculture and fertilizers use), steel industry, artificial ripening of fruits, chemical manufacturing (synthetic rubbers, plastics etc.).

Calcium carbide ( $\text{CaC}_2$ ) is made by heating a mixture of lime and carbon in an electric arc furnace. Its manufacturing process includes:

Prepare lime:

Limestone is calcined in a kiln to make lime.

Carbon:

Petroleum coke, metallurgical coke, or anthracite coal are used as carbon sources.

Mix lime and carbon:

The lime and carbon are mixed in an electric furnace.

Smelting:

The mixture is heated to 2,000–2,100°C (3,632–3,812°F) in electric arc furnace. The lime is reduced by carbon to calcium carbide and carbon monoxide.

The reaction for the production of calcium carbide is  $\text{CaO} + 3\text{C} \rightarrow \text{CaC}_2 + \text{CO}$ .

Calcium Carbide is further used in production of Dissolved Acetylene and Acetylene is further used for production of carbon Black and Hydrogen gas.



# Manufacturing Process



**Calcination of High Grade  $\text{CaCO}_3$  Having Negligible Impurities**



**Smelting of  $\text{CaO}$  and High Grade Coke**



**Cooling**



**Storage as per National Standard**



**Customized Packing**



**Crushing to Achieve Required Size**



**Transportation**

# Introduction of Product

Being only production facility of this capacity in Pakistan, Calcium carbide manufacturing is not only serving as an import substitute by meeting the entire demand of the Pakistani market but will also open doors to earn foreign exchange by exporting to Afghanistan, the Middle East, SARC and other countries.



# Professional in Chemicals

We feel proud in ourselves to produce quality products. We have a team of professionals to provide before and after sale services to our valuable clients to meet their satisfaction in every possible manner. This has been made possible by highly qualified technical persons in research and development division and by state-of-the-art research center equipped with modern equipments.



# Product Analysis

Size (mm)	Gas Yield (l/Kg)	Size % ≥	PH3% (V/V) ≤	H2S% (V/V) ≤
80-120	295-310	88	0.016	0.10
50-80	295-305	88	0.016	0.10
25-50	295-300	88	0.016	0.10



# Size Distribution



75-115mm



40-75mm



25-40mm



14-25mm



7-14mm



3-7mm



1-3mm



0.3-1mm

Customized size is also provided as per customer requirement in different packing sizes.

# Applications



Used as Desulfurizer and Dehydrate agent in steel industry. Also used as powerful Deoxidizer. Also used In Reduction of metals.

Used to produce acetylene gas. Acetylene gas is used in oxyacetylene cutting and welding purpose in industry. Acetylene is also used in metal fabrication, intermediate in cosmetics, tableted drugs, antiseptics and polyurethane fibers.



Preparation of calcium cyanamide, ethylene, chloroprene rubber, acetic acid, dicyandiamide and cyanide acetate.

Used in manufacturing of Acetic acid, Acrylic acid, Acrylonitril and 1,4 butanediol.



Used in Resin synthesis, Organic chemical and Plastics. Also used in production of Vinyl Acetate monomer (VAM) and Polyvinyl chloride monomer (PVC).

Calcium carbide is used to make calcium cyanamide which is a good fertilizer.



Calcium carbide is also used to capture CO<sub>2</sub> via Carbon closed loop system.

Calcium carbide is used in many Nano science areas including Nano-CaCO<sub>3</sub> synthesis by jet-reactor from calcium carbide slag.



Acetylene-derived chemicals are used in the synthesis of pharmaceuticals and aromatic compounds found in perfumes and essential oils.



# Safety Measures



- ✓ Highly reactive with water producing acetylene gas.
- ✓ Safety dress to be worn when working with Calcium carbide.
- ✓ Store at dry and well ventilated place.
- ✓ Use protective gloves and safety goggles

# Available Packing

✓ 5 kg Packing Polyethylene Bags

✓ 25 kg Drum Packing

✓ 50 kg Drum Packing

✓ 100 kg Drum Packing

✓ 200 kg Drum Packing

✓ 20 kg Carton Packing



**Customized Packing is also available as per customer demand.**

# Company Certifications

(In Process)





## CONTACT US

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